```
Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Xaa Ala Leu Ala
145 150 155 160
```

Gly Gly Arg Gly Leu Leu His Thr Xaa Pro Xaa Xaa Thr Xaa Pro Gln 165 170 175

Asn Ser Xaa Pro Gly Ser Ala Cys His Ser Arg Ala Glu Thr Xaa Gly
180 185 190

Ile Gln Pro Gly 195

- <210> 1781
- <211> 62
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (22)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (52)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 1781
- His Ile Ile Ser Ala His Val Ser Phe Thr Arg Lys Leu Ile Leu Tyr 1 5 10 15
- Ser Asn Thr Trp Gln Xaa Ala Gly Ser Arg Ala Leu Arg Val Thr Leu 20 25 30
- Ala Asp Gln Ser Pro Ile Pro Pro Phe Trp Val Val Gly Ser Leu Phe 35 40 45
- Cys Pro Arg Xaa Ala Glu Ala Ser Glu Ser Leu Ser Val Pro 50 55 60
- <210> 1782
- <211> 577
- <212> PRT
- <213> Homo sapiens
- <400> 1782
- Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala 1 5 10 15
- Ala Thr Ser Pro Leu Thr Ala Val. Phe Ser Leu Ser Arg Ser Leu Leu 20 25 30
- Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro 35 40 45

Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met 120 Cys Val Val Ile Ala Val Leu Thr Phe Ala Ile Ser Ala Ser Thr Val Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Tyr Ala Leu Ala 150 Gly Ala Val Gly Phe Phe Thr His Tyr Leu Leu Pro Gln Leu Arg Lys 165 170 Gln Leu Pro Trp Phe Cys Leu Ser Gln Pro Val Leu Lys Pro Leu Glu Tyr Ser Gln Tyr Glu Val Arg Gly Ala Ala Gln Val Met Trp Phe Glu 200 Lys Leu Tyr Ala Gly Leu Gln Cys Val Glu Lys Tyr Leu Ile Tyr Pro 215 Ala Val Val Leu Asn Ala Leu Thr Val Asp Ala His Thr Val Val Ser 230 His Pro Asp Lys Tyr Cys Phe Tyr Cys Arg Ala Leu Leu Met Thr Val 245 250 Ala Gly Leu Lys Leu Leu Arg Ser Ala Phe Cys Cys Pro Pro Gln Gln Tyr Leu Thr Leu Ala Phe Thr Val Leu Leu Phe His Phe Asp Tyr Pro Arg Leu Ser Gln Gly Phe Leu Leu Asp Tyr Phe Leu Met Ser Leu Leu Cys Ser Lys Leu Trp Asp Leu Leu Tyr Lys Leu Arg Phe Val Leu Thr 305 310 Tyr Ile Ala Pro Trp Gln Ile Thr Trp Gly Ser Ala Phe His Ala Phe 325 · 330 Ala Gln Pro Phe Ala Val Pro His Ser Ala Met Leu Phe Val Gln Ala 345 Leu Leu Ser Gly Leu Phe Ser Thr Pro Leu Asn Pro Leu Leu Gly Ser 360 365

Ala Val Phe Ile Met Ser Tyr Ala Arg Pro Leu Lys Phe Trp Glu Arg Asp Tyr Asn Thr Lys Arg Val Asp His Ser Asn Thr Arg Leu Val Thr 390 Gln Leu Asp Arg Asn Pro Gly Ala Asp Asp Asn Asn Leu Asn Ser Ile Phe Tyr Glu His Leu Thr Arg Ser Leu Gln His Thr Leu Cys Gly Asp 425 . 430 Leu Val Leu Gly Arg Trp Gly Asn Tyr Gly Pro Gly Asp Cys Phe Val Leu Ala Ser Asp Tyr Leu Asn Ala Leu Val His Leu Ile Glu Val Gly 455 460 Asn Gly Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg Gly Thr 470 · Tyr Cys Gln Gln Arg Glu Val Glu Ala Ile Thr Glu Gly Val Glu Glu 485 490 Asp Glu Gly Cys Cys Cys Glu Pro Gly His Leu Pro Arg Val Leu Ser Phe Asn Ala Ala Phe Gly Gln Arg Trp Leu Ala Trp Glu Val Thr 520 Ala Ser Lys Tyr Val Leu Glu Gly Tyr Ser Ile Ser Asp Asn Asa Ala Ala Ser Met Leu Gln Val Phe Asp Leu Arg Lys Ile Leu Ile Thr Tyr 550 Tyr Val Lys Val Arg Trp Ala Gly Val Ala Gly Gln Gln Gly Pro Cys 565 570 Gly <210> 1783 <211> 177 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (145) <223> Xaa equals any of the naturally occurring L-amino acids <220>

1140

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE <222> (175)

<400>.1783

Met Lys Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu 1 5 10 15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser 20 25 30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile 35 40 45

His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala 50 60

Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln 65 70 75 80

His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp 85 90 95

Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser 100 105 110

Glu Leu Gln Glu Phe Cys Pro Thr Ile Leu Gln Gln Leu Asp Ser Arg 115 120 125

Ala Cys Thr Ser Glu Asn Gln Glu Asn Glu Glu Asn Glu Gln Thr Glu 130 135 140

Xaa Gly Arg Pro Ser Ala Val Glu Val Trp Gly Tyr Gly Leu Leu Cys 145 150 155 160

Val Thr Val Ser Pro Ser Ala Pro Ser Trp Gly Pro Ala Trp Xaa Pro 165 170 175

Ser

<210> 1784

<211> 492

<212> PRT

<213> Homo sapiens

<400> 1784

Met Lys Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu 1 5 10 15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser 20 25 30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile 35 40 45

His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala 50 55 60

Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln 65 70 75 80

His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp

				85					90					95	
Ļeu	Phe	Thr	Ala 100	His	Asn	Phe.	Ser	Glu 105	Gln	Ser	Arg	Ile	Gly 110	Ser	Ser
Glu	Leu	Gln 115	Glu	Phe	·Суѕ	Pro	Thr 120	Ile	Leu	Gln	Gln	Leu 125	Asp	Ser	Arg
Ala	Cys 130	Thr	Ser	Glu	Asn	Gln 135	Glu	Asn	Glu	Glu	Asn 140	Glu	Gln	Thr	Glu
Glu 145	Gly	Arg	Pro	Ser	Ala 150	Val	Glu	Val	Trp	Gly 155	Tyr	Gly	Leu	Leu	Cys 160
Val	Thr	Val	Ile	Ser 165	Leu	Cys	Ser	Leu	Leu 170	Gly	Ala	Ser	Val	Val 175	Pro
Phe	Meť	Lys	Lys 180	Thr	Phe	Tyr	Lys	Arg 185	Leu	Ļeu	Leu		Phe 190	Ile	Ala
Leu	Ala	Ile 195	Gly	Thr	Leu	Tyr	Ser 200	Asn	Ala	Leu	Phe	Gln 205	Leu	Ile	Pro
Glu	Ala 210	Phe	Gly	Phe	Asn	Pro 215	Leu	Glu	Aśp	Tyr	Tyr 220	Val	Ser	Lys	Ser
Ala 225		Val	Phe	Gly	Gly 230	Phe	Tyr	Leu	Phe	Phe 235	Phe	Thr	Glu	Lys	Ile 240
Leu	Lys	Ile		Leu 245	Lys	Gln	Lys	Asn	Glu 250	His	His	His	Gly	His 255	Ser
His	Tyr	Ala	Ser 260	Glu	Ser	Leu	Pro	Ser 265	Lys	Lys	Asp	Gln	Glu 270	Glu	Gly
Val	Met	G1u 275	Lys	Leu	Gln	Asn	Gly 280	Asp	Leu	Asp	His	Met 285	Ile	Pro	Gln
His	Cys 290	Ser	Ser	Glu	Leu	Asp 295	Gly	Lys	Ala	Pro	Met 300	Val	Asp	Glu	Lys
Val 305	Ile	Val	Gly	Ser	Leu 310	Ser	Vaĺ	Gln	Asp	Leu 315	Gln	Ala	Ser	Gln	Ser 320
Ala	Cys	Tyr	Trp	Leu 325	Γλż	Gly	Val	Arg	Tyr 330	Ser	Asp	Ile	Gly	Thr 335	Leu
Ala	Trp	Met	Ile 340	Thr	Leu	Ser	Asp	Gly 345	Leu	His	Asn	Phe	Ile 350	Asp	Gly
Leu	Ala	Ile 355	Gly	Ala	Ser	Phe	Thr 360	Val	Ser	Val	Phe	Gln 365	Gly	Ile	Ser
Thr	Ser 370	Val	Ala	Ile	Leu	Cys 375	Glu	Glu	Phe	Pro	His 380	Glu	Leu	Gly	Asp
Phe 385	Val	Ile	Leu	Leu	Asn 390	Ala	Gly	Met	Ser	Ile 395	Gln	Gln	Ala	Leu	Phe 400
Phe	Asn	Phe	Leu	Ser	Ala	Cys	Cys	Cys	Tyr	Leu	Gly	Leu	Ala	Phe	

405 410 415

Ile Leu Ala Gly Ser His Phe Ser Ala Asn Trp Ile Phe Ala Leu Ala 420 425 430

Gly Gly Met Phe Leu Tyr Ile Ser Leu Ala Asp Met Phe Pro Glu Met 435 440 445

Asn Glu Val Cys Gln Glu Asp Glu Arg Lys Gly Ser Ile Leu Ile Pro 450 455 460

Phe Ile Ile Gln Asn Leu Gly Leu Leu Thr Gly Phe Thr Ile Met Val 470 . 475 480

Val Leu Thr Met Tyr Ser Gly Gln Ile Gln Ile Gly 485 490

<210> 1785

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1785

Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
1 5 10 15

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys 20 25 30

Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
35 40 45

Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His 50 60

Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
65 70 75 80

Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala 85 90

Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe 100 105 110

Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys 115 120 125

Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile 130 135 140

Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu 145 150 155 160

Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala 165 170 175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr 180 185 190

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<210> 1786
<211> 192
<212> PRT
<213> Homo sapiens
<400> 1786
Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
          5 . 10
Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
          55
                                      60
Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
 100 105
Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
      115
Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
  130 . 135
Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
         150 155
Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
          180 .
                           185 190
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<210> 1787
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<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1787

Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met

Ile Phe Tyr Met Val Met Cys Ile Xaa Tyr Ile Leu Tyr Gly Ile Leu

Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln 35

Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val

Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln 70

Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu

Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys 105

Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu 120

Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly 135

Ser Asn His Leu Ala Xaa Gly Leu Asp Asp Ile Ile Leu Ala Val Ile 155

Asp Ser Ile Phe Val Trp Val 165

<210> 1788

<211> 167 <212> PRT

<213> Homo sapiens

<400> 1788

Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met

Ile Phe Tyr Met Val Met Cys Ile Val Tyr Ile Leu Tyr Gly Ile Leu 25

Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln

Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val

50 55 60 - -

Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln 65 70 75 80

Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu 85 90 95

Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys 100 105 110

Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu 115 120 125

Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly
130 135 140

Ser Asn His Leu Ala Val Val Leu Asp Asp Ile Ile Leu Ala Val Ile 145 150 155 160

Asp Ser Ile Phe Val Trp Phe ·165

<210> 1789

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1789

Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly
1 5 10 15

Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln 20 25 30

Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser 35 40 45

Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala 50 55 60

Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg 65 70 75

Thr

<210> 1790

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1790

Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly
1 5 10 15

Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln 20 25 30

Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser 35 40 45

Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala 50 55 60

Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg 65 70 75 80

Thr

<210> 1791

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1791

Met Ala Leu Ala Arg Pro Gly Thr Pro Asp Pro Gln Ala Leu Ala Ser 1 5 10 15

Val Leu Leu Leu Leu Trp Ala Pro Ala Leu Ser Leu Leu Ala Gly
20 25 30

Thr Val Pro Ser Glu Pro Pro Ser Ala Cys Ala Ser Asp Pro Cys Ala 35 . 40 . 45

Pro Gly Thr Glu Cys Gln Ala Thr Glu Ser Gly Gly Tyr Thr Cys Gly 50 $\,$ 55 $\,$ 60

Pro Met Glu Pro Arg Gly Cys Ala Thr Gln Xaa Cys His His Gly Ala 65 70 75 80

Leu Cys Val Pro Gln Gly Pro Asp Pro Asn Gly Phe Arg Cys Tyr Cys 85 90 95

Val Pro Gly Phe Gln Gly Pro Arg Cys Glu Leu Asp Ile Asp Glu Cys 100 105 110

Ala Ser Arg Pro Cys His His Gly Ala Thr Leu Pro Xaa Pro Gly Arg 115 120 125

Ser Leu Arg Val Pro Leu Pro Leu Gly Tyr Ala Ala Pro His Leu Asn 130 135 140

Pro Leu Ser Tyr Val Trp Gly Ile Pro His Leu Met Arg Gln Arg Leu 145 150 155 160

Pro Pro Asp Gly Asp Ser Lys Ala Asn Asp Ser Lys Leu Gly Pro 165 170 175

Gln Lys Ile Tyr Ser Gly Lys 180

<210> 1792

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1792

Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Phe Leu Val Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys 20 25 30

Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro 35 40 45

Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro Pro 50 60

Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu 65 70 75 80

Gln Tyr Pro His Pro Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro 85 90 95

Leu Pro Glu Asn Glu Gly Ile · 100

<210> 1793

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1793

Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu $1 \ \ \,$ 5 $\ \ \,$ 10 $\ \,$ 15

Phe Leu Val Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys
20 25 30

Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro 35 40 45

Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro Pro 50 55 60 ,

Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu 65 70 75 80

Gln Tyr Pro His Pro Arg Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro 85 90 95

Leu Pro Glu Asn Glu Gly Ile 100

<210> 1794

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1794

Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val.

1 10 15

Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His 20 25 30

Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser 35 40 45 .

Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu
50 55 60

Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Xaa Asp Asn Ser 65 70 75

Arg Gly Ser Leu

<210> 1795

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1795

Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val 1 5 10

Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His 20 25 30

Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser 35 40 45

Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu 50 55

Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Leu Asp Asn Ser 65 70 . 75 80

Arg Gly Ser Leu .

<210> 1796

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1796

Met Gly Ser Gly Cys Pro Ala Gln Pro Thr Leu Ser Pro Trp Gly Ile
1 5 10 15

Leu Ser Arg Leu Leu Gly Val Leu Ala Gly Thr Ser Cys Gly Val Ser 20 25 30

Thr Pro Ala Ala Ala Gln Gly Gly Pro Glu Ile Gly Cys Arg Ala Pro 35 40 45

His Leu His Leu Ser Gly His Ala Pro Leu Ala Cys Pro Cys Ser Phe 50 55 60

Leu Pro Thr Ser Leu Gly Gly Val Cys Val Ser Ala Pro Ala Pro Ala 65 . 70 . 75 . 80

Leu Leu Ser Trp Gly Thr Leu Pro Ala Ile Trp Tyr Trp Gly Cys Pro 85 90 95

His Cys Leu Val Leu Gly Pro Gly Pro Ala His Ser Gly Leu Ala Leu
100 105 110

Leu Val Cys Ser 115

<210> 1797

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1797

Gly Pro Trp Pro Leu Cys Lys Ala Gln Arg Cys Ala Pro Asp Gln Pro 1 5 10 15

Ser Gly Leu Pro Trp Ala Arg Leu Gly Val Arg Val Ala His Trp Gly
20 25 30

Gly Gly Gly Leu Ala Arg His Ser Thr Leu Ala Gly Gly Pro Ser Gln
35 40 45

Arg Glu Pro Cys Arg Leu Arg Trp Ser Trp Pro Leu Ala Gly Cys Pro 50 55 60 .

Gly Ser Ala Pro Pro Leu Gln Gly Pro Ser Arg Asn Leu Leu Leu Asn 65 70 75 80

Gly Lys Ser Tyr Pro Thr Lys Val Arg Leu Ile Arg Gly Gly Ser Leu

85 90 95

Pro Pro Val Lys Arg Arg Met Asn Trp Ile Asp Ala Pro Asp Asp 100 105 110

Val Phe Tyr Met Ala Thr Glu Glu Thr Arg Lys Ile Arg Lys Leu Leu 115 120 125

Ser Ser Ser Glu Thr Lys Arg Ala Ala Arg Arg Pro Tyr Lys Pro Ile 130 135 140

Pro Val Asn Asp Glu Pro Ile Val Ile Glu Asp 165 170

<210> 1798

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1798

Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe 1 5 10 15

Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu 20 . 25 . 30

Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Trp
35 40 45

Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe 50 55 60

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly
65 70 75 80

Gln

<210> 1799

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1799

Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe 1 5 10 15

Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu 20 25 30

Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp 35 40 45

Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe 50 55 60

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly 65 70 75 80

Gln

<210> 1800

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids .

<400>.1800

Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp

1 5 10 15

Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Cys
20 25 30

Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn \$35\$ \$40\$

Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val
50 55 60

Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr
65 70 75 80

His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala 85 90 95

Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr 100 105 -110

Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys
115 120 125

Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Xaa Thr Arg Thr Leu 130 135 140

Gly Gly Glu Glu Ser 145

<210> 1801

<211> 149

<212> PRT

<213> Homo sapiens

<400> 1801 -

Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp 1 5 10 15

Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys 20 25 30

Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn 35 40 45

Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr 65 70 75 80

His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala 85 90 95

Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr 100 105 . 110,

Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys 115 120 125

Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Lys Thr Arg Thr Leu 130 135 140

Gly Gly Glu Glu Ser 145

<210> 1802

<211> 140

<212> PRT

<213> Homo sapiens

<400> 1802

Ile Pro Leu Cys Ser Ile Phe Gly Ala Leu Ile Ala Val Cys Leu IIe

1 10 15

Met Gly Leu Phe Asp Gly Cys Phe Ile Ser Ile Met Ala Pro Ile Ala 20 25 30

Phe Glu Leu Val Gly Ala Gln Asp Val Ser Gln Ala Ile Gly Phe Leu 35 40 45

Leu Gly Phe Met Ser Ile Pro Met Thr Val Gly Pro Pro Ile Ala Gly 50 55 60

Leu Leu Arg Asp Lys Leu Gly Ser Tyr Asp Val Ala Phe Tyr Leu Ala 65 70 75 80

Gly Val Pro Pro Leu Ile Gly Gly Ala Val Leu Cys Phe Ile Pro Trp 85 90 95

Ile His Ser Lys Lys Gln Arg Glu Ile Ser Lys Thr Thr Gly Lys Glu
100 105 110

Lys Met Glu Lys Met Leu Glu Asn Gln Asn Ser Leu Leu Ser Ser

115 120 125

Ser Gly Met Phe Lys Lys Glu Ser Asp Ser Ile Ile 130 135 140

<210> 1803

<211> 234

<212> PRT

<213> Homo sapiens

<400> 1803

Pro Thr Arg Pro Pro Thr Arg Pro Val Arg Val Ser Val Gly Gly Leu

1 10 15

Val Gly Glu Val Ala Cys Ala Cys Arg Asp Cys Ile Pro Glu Thr Met 20 25 30

Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr Ala 35 40 45

Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met Ala 50 60

Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile Met 65 70 75 80

Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro Ser 85 90 95

Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala Asp 100 105 110

Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys Trp 115 120 125

Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu Val 130 135 140

Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr Leu 145 150 155 160

Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser Leu 165 170 175

Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Thr
180 185 190

Tyr Leu Ile Val Thr Ser Leu Leu Leu Pro Gly Leu Asn Gln His
195 200 205

Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn Lys 210 220

Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu 225 230

<210> 1804

<211> 155

<212> PRT

<213> Homo sapiens

<400> 1804

Met Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro 1 5 10 15

Ser Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala 20 ·25 30

Asp Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys
35 40 45

Trp Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu 50 55 60

Val Lys Thr Arg Arg Arg Alá Val Gly Trp Trp Lys Arg Leu Phe Thr 65 70 75 80

Leu Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser 85 90 95

Leu Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu 100 105 110

Thr Tyr Leu Ile Val Thr Ser Leu Leu Leu Pro Gly Leu Asn Gln 115 120 125

His Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn 130 135 140

Lys Leu Leu Lys Gln Lys Glu Lys Lys Asn Glu 145 150 155

<210> 1805

<211> 202

<212> PRT

<213> Homo sapiens

<400> 1805

Met Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr

1 10 15

Ala Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met 20 · 25 30

Ala Asp Lys Val Leu Arg Trp Glu Arg Ala Trp Phe Pro Pro Ala Ile 35 40 45

Met Gly Val Val Ser Leu Val Phe Leu Ile Ile Tyr Tyr Leu Asp Pro 50 55 60

Ser Val Leu Ser Gly Val Ser Cys Phe Val Met Phe Leu Cys Leu Ala 65 70 75 80

Asp Tyr Leu Val Pro Ile Leu Ala Pro Arg Ile Phe Gly Ser Asn Lys

85 .. 90 95

Trp Thr Thr Glu Gln Gln Gln Arg Phe His Glu Ile Cys Ser Asn Leu 100 105 110

Val Lys Thr Arg Arg Arg Ala Val Gly Trp Trp Lys Arg Leu Phe Thr 115 120 125

Leu Lys Glu Glu Lys Pro Lys Met Tyr Phe Met Thr Met Ile Val Ser 130 135 140

Leu Ala Ala Val Ala Trp Val Gly Gln Gln Val His Asn Leu Leu Leu 145 150 155 160

Thr Tyr Leu Ile Val Thr Ser Leu Leu Leu Leu Pro Gly Leu Asn Gln 165 170 175

His Gly Ile Ile Leu Lys Tyr Ile Gly Met Ala Lys Arg Glu Ile Asn 180 185 190

Lys Leu Leu Lys Gln Lys Lys Lys Lys 195 200

<210> 1806

<211> 485

<212> PRT

<213> Homo sapiens

<400> 1806

Ala Arg Lys Pro Arg Ser Gln Ile Lys Asn Glu Ile Asn Ile Asp Thr 1 5 10 15

Leu Ala Arg Asp Glu Phe Asn Leu Gln Lys Met Met Val Met Val Thr 20 25 30

Ala Ser Gly Lys Leu Phe Gly Ile Glu Ser Ser Ser Gly Thr Ile Leu 35 40 45

Trp Lys Gln Tyr Leu Pro Asn Val Lys Pro Asp Ser Ser Phe Lys Leu 50 55 60

Met Val Gln Arg Thr Thr Ala His Phe Pro His Pro Pro Gln Cys Thr 65 70 75 80

Leu Leu Val Lys Asp Lys Glu Ser Gly Met Ser Ser Leu Tyr Val Phe 85 90 95

Asn Pro Ile Phe Gly Lys Trp Ser Gln Val Ala Pro Pro Val Leu Lys 100 105 110

Arg Pro Ile Leu Gln Ser Leu Leu Leu Pro Val Met Asp Gln Asp Tyr 115 120 125

Ala Lys Val Leu Leu Ile Asp Asp Glu Tyr Lys Val Thr Ala Phe 130 135 140

Pro Ala Thr Arg Asn Val Leu Arg Gln Leu His Glu Leu Ala Pro Ser 145 150 155 160

Ile	Phe	Phe	Tyr ,	Leu 165	Val	Asp	Ala	Glu	Gln 170	Gly	Arg	Leu	Cys	Gly 175	Tyr
Arg	Leu	Arg	Lys 180	Asp	Leu	Thr	Thr	Glu 185	Leu	Ser	Trp	Glu	Leu 190	Thr	Ile
Pro	Pro	Glu 195	Val	Gln	Arg	Ile	Val 200	Lys	Val	Lys	Gly	Lys 205	Arg	Ser	Ser
Glu	His 210	Val	His	Ser	Gln	Gly 215	Arg	Val	Met	Gly	Asp 220	Arg	Ser	Val	Leu
Tyr 225	Lys	Ser	Leu	Asn	Pro 230	Asn	Leu	Leu	Ala	Val 235	Val	Thr	Glu	Ser	Thr 240
Asp	Ala	His	His	Glu 245	Arg	Thr	Phe	Ile	Gly 250	Ile	Phe	Leu	Ile	Asp 255	Gly
Val	Thr	Gly	Arg 260	Ile	Ile	His	Ser	Ser 265	Val	Gln	Lys	Lys	Ala 270	Lys	Gly
Pro	Val	His 275	Ile	Val	His	Ser	Glu 280	Asn	Trp	Val	Val	Tyr 285	Gln	Tyr	Trp
Asn	Thr 290	Lys	Ala	Arg	Arg	Asn 295	Glu	Phe	Thr	Val	Leu 300	Glu	Leu	Tyr	Glu
Gly 305	Thr	Glu	Gln	Tyr	Asn 310	Ala	Thr	Ala	Phe	Ser 315	Ser	Leu	Asp	Arg	Pro 320
				325			Gln		330					335	
			340				Thr	345					350		
Leu	Leu	Ile 355	Gly	Leu	Pro	Ser	360 Gly	Ala	Ile	Leu	Ser	Leu 365	Pro	Lys	Ala
	370				•	375	Glu				380				
385		•			390		Pro			395					400
Phe	Ile	Asn	Tyr	Asn 405	Gln	Thr	Val	Ser	Arg 410	Met	Arg	Gly ·	Ile	Tyr 415	Thr
Ala	Pro	Ser	Gly 420	Leu	Glu	Ser	Thr	Cys 425	Leu	Val	Val	Ala	Tyr 430	Gly	Leu
Asp	Ile	Tyr 435	Gln	Thr	Arg	Val	Tyr 440	Pro	Ser	Lys	Gln	Phe 445	Asp	Val	Leu
Lys	Asp 450	Asp	Tyr	Asp	Tyr	Val 455	Leu	Ile	Ser	Ser	Val 460	Leu ,	Phe	Gly	Leu
Val 465	Phe	Ala	Thr	Met	11e 470	Thr	Lys	Arg	Leu	Ala 475	Gln	Val	Lys	Leu	Leu 480

Asn Arg Ala Trp Arg 485

<210> 1807

<211> 360

<212> PRT

<213> Homo sapiens

<400> 1807

Met Ala Ala Glu Trp Ala Ser Arg Phe Trp Leu Trp Ala Thr Leu Leu 1 5 10 15

Ile Pro Ala Ala Ala Val Tyr Glu Asp Gln Val Gly Lys Phe Asp Trp
20 25 30

Arg Gln Gln Tyr Val Gly Lys Val Lys Phe Ala Ser Leu Glu Phe Ser 35 40 45

Pro Gly Ser Lys Lys Leu Val Val Ala Thr Glu Lys Asn Val Ile Ala 50 55 60

Ala Leu Asn Ser Arg Thr Gly Glu Ile Leu Trp Arg His Val Asp Lys 65 70 75 80

Gly Thr Ala Glu Gly Ala Val Asp Ala Met Leu Leu His Gly Gln Asp 85 90 95

Val Ile Thr Val Ser Asn Gly Gly Arg Ile Met Arg Ser Trp Glu Thr
100 105 110

Asn Ile Gly Gly Leu Asn Trp Glu Ile Thr Leu Asp Ser Gly Ser Phe 115 120 125

Gln Ala Leu Gly Leu Val Gly Leu Gln Glu Ser Val Arg Tyr Ile Ala 130 135 140

Val Leu Lys Lys Thr Thr Leu Ala Leu His His Leu Ser Ser Gly His 145 150 155 160

Leu Lys Trp Val Glu His Leu Pro Glu Ser Asp Ser Ile His Tyr Gln 165 170 175

Met Val Tyr Ser Tyr Gly Ser Gly Val Val Trp Ala Leu Gly Val Val 180 185 190

Pro Phe Ser His Val Asn Ile Val Lys Phe Asn Val Glu Asp Gly Glu 195 200 205

Ile Val Gln Gln Val Arg Val Ser Thr Pro Trp Leu Gln His Leu Ser 210 215 220

Gly Ala Cys Gly Val Val Asp Glu Ala Val Leu Val Cys Pro Asp Pro 225 230 235 240

Ser Ser Arg Ser Leu Gln Thr Leu Ala Leu Glu Thr Glu Trp Glu Leu 245 250 255

Arg Gln Ile Pro Leu Gln Ser Leu Asp Leu Glu Phe Gly Ser Gly Phe 260 265 270

Gln Pro Arg Val Leu Pro Thr Gln Pro Asn Pro Val Asp Ala Ser Arg 275 280 285

Ala Gln Phe Phe Leu His Leu Ser Pro Ser His Tyr Ala Leu Leu Gln 290 295 300

Tyr His Tyr Gly Thr Leu Ser Leu Leu Lys Asn Phe Pro Gln Thr Ala 305 310 315 320

Leu Val Ser Phe Ala Thr Thr Gly Glu Lys Thr Val Ala Ala Val Met 325 330 335

Ala Cys Arg Asn Glu Val Gln Lys Thr Ser Ser Ser Glu Asp Gly Ser 340 345 350

Met Gly Glu Leu Phe Gly Glu Val 355 360

<210> 1808

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1808

Met Arg Gly Ile Tyr Thr Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu $1 \hspace{1cm} 5 \hspace{1cm} . \hspace{1cm} 10 \hspace{1cm} 15$

Val Val Ala Tyr Gly Leu Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser 20 25 30

Lys Gln Phe Asp Val Leu Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser 35 40 45

Ser Val Leu Phe'Gly Leu Val Phe Ala Thr Met Ile Thr Lys Arg Leu 50 55 60

Ala Gln Val Lys Leu Leu Asn Arg Ala Trp Arg 65 70 75

<210> 1809

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1809

Glu Phe Gly Thr Arg Lys Glu Glu Glu Arg Val Ala Met Val Pro Arg

1 : 5 10 15

Leu Ala Phe Ile Leu Phe Val Leu Ala Arg Asp Tyr Asn Val Thr Ser 20 25 30

Leu Gly Gln Asp Leu Asn Trp Lys Tyr Glu Ala Lys Asp Tyr Arg Lys 35 40 45

Thr Gly Glu Leu Lys Asn Ile Gly Glu Cys Gly Arg Ser Tyr Lys Phe 50 55 60

Leu Ser Arg Asn Gln Asp Trp Asn Thr Arg Tyr Ser His Pro Asn Arg 65 70 75 80

Pro Ala Lys Tyr Ser Gly Ile Asp Glu Met Cys Lys Ala Gln Glu Ser 85 90 95

Gly Leu Ser Pro Ser Lys Gln Leu Asn Arg Leu Ser Thr Leu Thr Ala 100 105 110

Leu Lys Val Ser Gln Pro Val Lys Leu Ala Leu Phe Ser Arg Ser Pro 115 120 125

Arg Arg Glu Ile Arg Val Gly Arg 130 135

<210> 1810

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1810

Gly Leu His Phe Asn Ile Arg Val Asp His Gly Met Leu Trp Ala Pro 1 5 10 15

Val Leu Tyr Lys Asp Val Gly Gln Glu Leu Pro Val Val Ser Thr Ala 20 25 30

Pro Ser His Ile Ala Leu Leu Met Glu Pro Phe Thr Pro Asp Val Leu 35 40 45

Ser Arg Leu Met Gly Arg Ile Xaa Val Cys Lys Asp Tyr Val Ile Asp 50 55 60

Gln Leu Trp Ser Val Leu Lys Glu Ile Cys Gln Trp Ile Ile Pro Tyr 65 70 75 80

Gly

<210> 1811

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1811

Met His Leu Gly Leu Val Ser Leu Ile Leu Phe Cys Gln Ala Leu Glu 1 5 10 15

Val Asp Ile Ser Leu Gln Gly Pro Gly Ile Val Pro Gly Arg Ser Glu 20 25 30

Val Ser Leu Ser Leu Gln Gly Pro Arg Gly Gly Cys Phe Pro Ile 35 40 45

Ala Thr Gly Ala Pro Phe Ile Val Leu Pro Leu Gly Leu Tyr Leu 50 55 60

Val Phe His Leu Cys Cys Phe Phe Gly Leu Phe Cys Ala Xaa Leu Arg 65 70 75 80

Leu Arg Glu Pro Gly Trp Asp His Leu Ile Ile 85 90

<210> 1812

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1812

Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser 1 5 10 15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro 20 25 30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly 35 40

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Xaa Gly 50 55 60

Pro Xaa Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu 65 70 75 80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val
85 90 95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser 100 105 110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
115 120 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala 130 135 140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr 145 150 155 160

Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg 165 170 175

Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu 180 . 185 . 190

Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu 195 200 205

Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys 210 . 215 220

Ala Gln Val His Ala Val 225 230

<210> 1813

<211> 232

<212> PRT

<213> Homo sapiens

<400> 1813

Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser 1 5 10 15

Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro 20 25 30

Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly
35 40 45

Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Leu Gly 50 55 60

Pro Ser Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu 65 70 75 80

Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val 85 90 95

Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser . 100 105 110

Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly
115 120 125

Lys Phe Asn Leu Gln Leu Pro Ser Leu Asp Asp Gln Val Ile Pro Ala 130 135 140

Arg Leu Pro Lys Thr Glu Val Ser Ala Glu Glu Pro Lys Glu Ala Thr

145 150 155 160

Glu Val Lys Asp Gln Val Glu Thr Gln Gly Gln Glu Asp Asn Lys Arg 165 170 175

Gly Pro Cys Ser Asn Gly Glu Ala Ala Ser Thr Ser Arg Pro Leu Glu 180 .185 190

Thr Gln Gly Asn Leu Thr Ser Ser Trp Tyr Asn Pro Arg Pro Leu Glu 195 200 205

Gly Asn Val His Leu Lys Ser Leu Thr Glu Lys Asn Gln Thr Asp Lys 210 215 220

Ala Gln Val His Ala Val Ser Cys 225 230

<210> 1814

<211> 156

<212> PRT

<213> Homo sapiens .

<400> 1814

Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe
1 5 10 15

Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Asn Ser 20 25 30

Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly
35 40 45

Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly 50 . 55 60

Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu 65 70 . 75 80

Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe 85 90 95

Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Pro Phe 100 105 110

Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln 115 120 125

Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser 130 135 140

Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro 145 150 155

<210> 1815

<211> 213

<212> PRT

<213> Homo sapiens

<400> 1815

Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe 1 5 10 15

Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Asn Ser 20 25 30

Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly 35 40

Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly 50 55 60

Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu 65 70 75 80

Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe 85 90 95

Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Pro Phe 100 105 110

Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln 115 120 125

Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser 130 135 140

Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro Val Ser Glu Tyr, 145 150 155 160

Met Asn Gln Ala Met Leu Phe Gly Arg Asn Pro Arg Tyr Glu Asn Val 165 170 175

Pro Leu Ile Gly Arg Ala Ser Pro Pro Pro Thr Tyr Ser Pro Ser Met 180 185 190

Arg Ala Thr Tyr Leu Ser Val Ala Asp Glu His Leu Arg His Tyr Gly
195 200 205

Asn Gln Phe Pro Ala 210

<210> 1816

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1816

Glu Cys Xaa Arg Lys Pro Thr Pro Arg Ala Glu Phe Leu Gln Pro Gly
1 5 10 15

Gly Ser Thr Ser Ser Arg Ala Ala Ala Thr Ala Val 20 25

<210> 1817

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1817

Met Leu Asn Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe 1 5 10 15

Leu Ser Val Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr 20 25 30

Ala Tyr Thr Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu 35 40 45

Pro Leu Val Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly 50 55 60

Asn Glu Pro Leu Gly Ala Ser Gly Met Phe His 65 . 70 . 75

<210> 1818

<211> 280

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1818

Met His Ser Gln Cys Gln Gly Phe Phe Ser Ser Leu Thr Met Leu Asn 1 5 10 15

Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe Leu Ser Val 20 25 30

Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr Ala Tyr Thr 35 40 45

Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu Pro Leu Val 50 55 60

Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly Asn Glu Pro 65 70 75 80

Pro Trp Cys Phe Trp Asp Val Pro Leu Ile Tyr Ser Tyr Xaa Xaa Asp 85 90 95 .

Val Tyr Trp Asn Val Gly Phe Leu Lys Tyr Tyr Glu Leu Lys Gln Val 100 105 110

Pro Asn Phe Leu Leu Ala Ala Pro Val Ala Ile Leu Val Ala Trp Ala 115 120 125

Thr Trp Thr Tyr Val Thr Thr His Pro Trp Leu Cys Leu Thr Leu Gly
130 135 140

Leu Gln Arg Ser Lys Asn Asn Lys Thr Leu Glu Lys Pro Asp Leu Gly 145 150 155 160

Phe Leu Ser Pro Gln Val Phe Val Tyr Val Val His Ala Ala Val Leu 165 170 175

Leu Leu Phe Gly Gly Leu Cys Met His Val Gln Val Leu Thr Arg Phe 180 185 190

Leu Gly Ser Ser Thr Pro Ile Met Tyr Trp Phe Pro Ala His Leu Leu · 195 200 205

Gln Asp Gln Glu Pro Leu Leu Arg Ser Leu Lys Thr Val Pro Trp Lys 210 215 . 220

Pro Leu Ala Glu Asp Ser Pro Pro Gly Gln Lys Val Pro Arg Asn Pro 225 235 240

Ile Met Gly Leu Leu Tyr His Trp Lys Thr Cys Ser Pro Val Thr Arg 245 250 255

Tyr Ile Leu Gly Tyr Phe Leu Thr Tyr Trp Leu Leu Gly Leu Leu 260 265 270

His Cys Asn Phe Leu Pro Trp Thr 275 280

<210> 1819

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1819

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr 1 5 10 15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile 20 25 30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val
35 40 45

Ile Leu Val Glý Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val 50 55 60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu

65 70 75 80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys 85 90 95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr
100 105 110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro 115 120 125

His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu 130 135 140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys 145 150 155 160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr 165 170 175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg 180 185 190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg 195 200 205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His 210 215 220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly 225 230 235 240

Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu 245 250 255

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu 260 265 270

Thr

<210> 1820

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1820

Met Lys Val Ala Val Ser Pro Ala Val Gly Pro Gly Pro Trp Gly Ser 1 15

Gly Val Gly Gly Gly Thr Val Arg Leu Leu Leu Ile Leu Ser Gly
20 25 30

Cys Leu Val Tyr Gly Thr Ala Glu Thr Asp Val Asn Val Val Met Leu $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Gln Glu Ser Gln Val Cys Glu Lys Arg Ala Ser Gln Gln Phe Cys Tyr
· 50 55 60

Thr Asn Val Leu Ile Pro Lys Trp His Asp Ile Trp Thr Arg Ile Gln 65 70 75 80

Xaa Arg Xaa Xaa Ser Ser Arg Leu Val Arg Val Thr Gln Val Glu Xaa 85 90 95

<210> 1821

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1821

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr
1 5 10 15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
20 25 30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val 35 40 45

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
50 55 60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu 65 70 75 80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys 85 90 95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr 100 105 110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro

115 120 129

His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu 130 135 140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys 145 150 . 155 160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Tyr
165 170 175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg 180 185 190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg 195 · 200 205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His 210 215 220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly 225 230 235

Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu 245 250 255

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu 260 265 270

Thr

<210> 1822

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1822

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr 1 5 10 15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile
20 25 30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val 35 40 45

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val
50 60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu. 65 70 75 80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys 85 90 95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr 100 105 110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro 115 120 125

His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu 130 135 140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys 145 150 155 160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr 165 170 175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg 180 185 190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg 195 200 205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His 210 215 220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly 230 235 240

Ser Ile Ile Ala Gl
n Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu 245 250255

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu 260 265 270

Thr

· <210> 1823

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1823

Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn
1 10 15

Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser 20 25 30

Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys 35 40 45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val 50 55 60

Gly Arg Gly Glu Xaa Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser

65 70 75 80

Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His
85 90 95

Phe Asn Leu His Phe Arg Asp Thr Phe 100 105

<210> 1824

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1824

Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn 1 5 10 15

Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser 20 25 30

Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys 35 40 45

Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val 50 55 60

Gly Arg Gly Glu Glu Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser 65 70 75 80

Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His
85 90 95

Phe Asn Leu His Phe Arg Asp Thr Phe 100 . 105

<210> 1825

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1825

Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu 1 5 10 15

Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly
20 25 30

His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro
35 40 45

Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Gly Glu 50 55 60

Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe 65 70 75 80

Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys 85 90

<210> 1826

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1826

Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu 1 5 10 15

Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly 20 25 30

His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro 35 40 45

Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Gly Glu
50 55 60

Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe 65 70 75 80

Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys 85 90

<210> 1827

<211> 261

<212> PRT

<213> Homo sapiens

<400> 1827

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile 1 . . . 5 10

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr 20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly
35 40 45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg 50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg 65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val 85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser 100 \$105\$

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser 115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val 130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe 165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met 180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala 195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly 210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg 225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser 245 250 255

Lys His Asp Tyr Val 260

<210> 1828

<211> 261

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1828

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile 1 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr 20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg
50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg 65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val 85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser 100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Xaa Ile Xaa Ser 115 . 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val 130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly 145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe 165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met 180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala 195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly 210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg 225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser 245 250 255

Lys His Asp Tyr Val 260

<210> 1829

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1829

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu
1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr
20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe 35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile 50 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln 65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
85 90

<210> 1830

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1830

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu

1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr 20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe 35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile 50 55 60 .

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln 65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His

<210> 1831

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1831

Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu

1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr 20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe 35 40 45

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln 65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His
85 90

<210> 1832

<211> 270

<212> PRT

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<213> Homo sapiens
<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (118)
<223> Kaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (268)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1832
Gly Glu Glu Phe Gln Pro Glu Gly Ser Lys Cys Thr Lys Cys Ser Cys
Thr Gly Gly Arg Thr Gln Cys Val Arg Glu Val Cys Pro Ile Leu Ser
                                25
Cys Pro Gln His Leu Ser His Ile Pro Pro Gly Gln Cys Cys Pro Lys
Cys Leu Gly Gln Arg Lys Val Phe Asp Leu Pro Phe Gly Ser Cys Leu
Phe Arg Ser Asp Val Tyr Asp Asn Gly Ser Ser Phe Leu Tyr Asp Asn
Cys Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys
                85
Cys Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu
                                105
Xaa Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe
Gly Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys
                    . 135
Thr Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln
                    150
Cys Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys
                                    170
Gly Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe
                                185
```

Gly Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln

195 200 205

Gly Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser 210 215 220

Pro Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe 225 230 235 240

Ser Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala 245 250 255

Cys Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser 260 265 270

<210> 1833

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE .

<222> (104) ·

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1833

Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg 1 5 10 15

Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Asn Cys Ser · 20 25 30

Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala 35 40 45

Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp 50 55 60

Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys

65 70 75 80

Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys 85 90 95

Gln Arg Gly Ala Cys Cys Glu Xaa Cys Lys Gly Cys Thr Tyr Glu Gly
100 105 110

Asn Thr Tyr Asn Ser Ser Phe Lys Trp Gln Ser Pro Ala Glu Pro Cys 115 120 · 125

Val Leu Arg Gln Cys Gln Glu Gly Val Val Thr Glu Ser Gly Val Arg 130 135 140

Cys Val Xaa His Cys Lys Xaa Pro Leu Glu His Leu Gly Met Cys Cys 145 150 155 160

Pro Thr Cys Pro Gly Cys Val Phe Glu Gly Val Gln Tyr Gln Glu Xaa 165 170 175

Glu Glu Xaa Gln Pro Glu 180

<210> 1834

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1834

Ser Ser Ser Leu Leu Ile Ile Tyr Val Cys Met Met Asp Val Thr Ile
1 10 15

Tyr Met Ser Cys Val Glu Ile Lys Gly Cys Leu Asp Ala Met Leu Ile 20 25 30

Leu Leu Ser Met Arg Lys Tyr Leu Lys Lys Leu Leu His Asn Ile 35 40 45

<210> 1835

<211> 445

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (293)

<223> Xaa' equals any of the naturally occurring L-amino acids

- . <220>
 - <221> SITE
 - <222> (332)
 - <223> Xaa equals any of the naturally occurring L-amino acids
 - <220>
 - <221> SITE
 - <222> (443)
 - <223> Xaa equals any of the naturally occurring L-amino acids
 - <400> 1835 ·
 - Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg

 1 5 10 . 15
 - Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser 20 25 30
 - Gly. Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala . 35 40 45
 - Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp 50 60
 - Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys 65 70 75 80
 - Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys 85 90 95
 - Gln Arg Gly Ala Cys Cys Glu Gln Cys Lys Gly Cys Thr Tyr Glu Gly 100 105 110
 - Asn Thr Tyr Asn Ser Ser Phe Lys Trp Gln Ser Pro Ala Glu Pro Cys 115 120 125
 - Val Leu Arg Gln Cys Gln Glu Gly Val Val Thr Glu Ser Gly Val Arg 130 135 140
 - Cys Val Xaa His Cys Lys Asn Pro Leu Glu His Leu Gly Met Cys Cys 145 150 155 160
 - Pro Thr Cys Pro Gly Cys Val Phe Glu Gly Val Gln Tyr Gln Glu Gly 165 170 175
 - Glu Glu Phe Gln Pro Glu Gly Ser Lys Cys Thr Lys Cys Ser Cys Thr 180 185 190
 - Gly Gly Arg Thr Gln Cys Val Arg Glu Val Cys Pro Ile Leu Ser Cys 195 200 205
 - Pro Gln His Leu Ser His Ile Pro Pro Gly Gln Cys Cys Pro Lys Cys 210 220
 - Leu Gly Gln Arg Lys Val Phe Asp Leu Pro Phe Gly Ser Cys Leu Phe 225 230 235 240
 - Arg Ser Asp Val Tyr Asp Asn Gly Ser Ser Phe Leu Tyr Asp Asn Cys 245 250 255

Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys Cys 260 265 270

Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu Kaa 275 280 285

Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe Gly 290 295 300

Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys Thr 305 310 315 320

Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln Cys 325 330 335

Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys Gly 340 345 350

Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe Gly 355 360 365

Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln Gly 370 375 380

Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser Pro 385 390 395 400

Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe Ser 405° 415

Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala Cys
420
425
430

Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser 435 440 445

<210> 1836

<211> 370

<212> PRT

<213> Homo sapiens

<400> 1836

Leu Gly Gly Ala Arg Val Arg Arg Ala Val Gly Leu Ser Gly Thr Gly
1 5 10 15

Ala Glu Ala Gly Arg Ala Gly Ala Met Val Glu Lys Glu Glu Ala Gly 20 25 30

Gly Gly Ile Ser Glu Glu Glu Ala Ala Gln Tyr Asp Arg Gln Ile Arg 35 40 45

Leu Trp Gly Leu Glu Ala Gln Lys Arg Leu Arg Ala Ser Arg Val Leu 50 60

Leu Val Gly Leu Lys Gly Leu Gly Ala Glu Ile Ala Lys Asn Leu Ile 65 70 75 80

Leu Ala Gly Val Lys Gly Leu Thr Met Leu Asp His Glu Gln Val Thr 85 90 95

Pro Glu Asp Pro Gly Ala Gln Phe Leu Ile Arg Thr Gly Ser Val Gly 100 105 110

Arg Asn Arg Ala Glu Ala Ser Leu Glu Arg Ala Gln Asn Leu Asn Pro 115 120 125

Met Val Asp Val Lys Val Asp Thr Glu Asp Ile Glu Lys Lys Pro Glu 130 135 . 140

Ser Phe Phe Thr Gln Phe Asp Ala Val Cys Leu Thr Cys Cys Ser Arg 145 150 155 160

Asp Val Ile Val Lys Val Asp Gln Ile Cys His Lys Asn Ser Ile Lys 165 : 170 175

Phe Phe Thr Gly Asp Val Phe Gly Tyr His Gly Tyr Thr Phe Ala Asn 180 185 190

Leu Gly Glu His Glu Phe Val Glu Glu Lys Thr Lys Val Ala Lys Val 195 200 205

Ser Gln Gly Val Glu Asp Gly Pro Asp Thr Lys Arg Ala Lys Leu Asp 210 215 220

Ser Ser Glu Thr Thr Met Val Lys Lys Lys Val Val Phe Cys Pro Val 225 230 235 .240

Lys Glu Ala Leu Glu Val Asp Trp Ser Ser Glu Lys Ala Lys Ala Ala 245 250 255

Leu Lys Arg Thr Thr Ser Asp Tyr Phe Leu Leu Gln Val Leu Lys 260 265 270

Phe Arg Thr Asp Lys Gly Arg Asp Pro Ser Ser Asp Thr Tyr Glu Glu 275 280 285

Asp Ser Glu Leu Leu Gln Ile Arg Asn Asp Val Leu Asp Ser Leu 290 295 300

Gly Ile Ser Pro Asp Leu Leu Pro Glu Asp Phe Val Arg Tyr Cys Phe 305 310 315 320

Ser Glu Met Ala Pro Val Cys Ala Val Val Gly Gly Ile Leu Ala Gln 325 330 335

Glu Ile Val Lys Ala Leu Ser Gln Arg Asp Pro Pro His Asn Asn Phe 340 · 345 350

Phe Phe Phe Asp Gly Met Lys Gly Asn Gly Ile Val Glu Cys Leu Gly 355 360 365

Pro Lys 370

<210> 1837

PCT/US01/11988

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WO 01/77137
 <211> 42
 <212> PRT
 <213> Homo sapiens
 <400> 1837
 Met Val Pro Ser Val Thr Leu Ile Leu His Cys Pro Gly Phe Ser Thr
 Glu Ser His Met Cys Gly Lys Pro Leu Ser Pro Arg Pro Thr Arg Thr
 Val Gly Arg Pro Val Ser Asn Ile Pro Val
          35 . 40
 <210> 1838
 <211> 89
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids .
 <400> 1838
 Val Gln Gly Val Val Gln Ala Leu Lys Thr Asp His Ala Phe Cys Pro
. Xaa Leu Gln Gly Thr Glu Ser Ile Arg Leu Arg Ile Leu Glu Phe Glu
 Leu Asn Gln Val Arg Ser Val Ser Gln Glu Leu Pro Pro Gly Xaa Pro
 Glu Ser Pro Gln Thr Asp Gly Gln Pro Pro Arg Ala Trp Pro Gln Leu
 Gly Met Pro Ser Asn Pro Thr Cys Phe Ser Phe Leu Pro Gly Tyr Ser
         70 · 75
 Gly Leu Arg Ser Ser Ala Leu Asn Phe
                85
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<210> 1839 <211> 346 <212> PRT <213> Homo sapiens <400> 1839 Met Val Glu Lys Glu Glu Ala Gly Gly Gly Ile Ser Glu Glu Glu Ala

Ala Gln Tyr Asp Arg Gln Ile Arg Leu Trp Gly Leu Glu Ala Gln Lys Arg Leu Arg Ala Ser Arg Val Leu Leu Val Gly Leu Lys Gly Leu Gly Ala Glu Ile Ala Lys Asn Leu Ile Leu Ala Gly Val Lys Gly Leu Thr Met Leu Asp His Glu Gln Val Thr Pro Glu Asp Pro Gly Ala Gln Phe Leu Ile Arg Thr Gly Ser Val Gly Arg Asn Arg Ala Glu Ala Ser Leu Glu Arg Ala Gln Asn Leu Asn Pro Met Val Asp Val Lys Val Asp Thr 105 Glu Asp Ile Glu Lys Lys Pro Glu Ser Phe Phe Thr Gln Phe Asp Ala 120 Val Cys Leu Thr Cys Cys Ser Arg Asp Val Ile Val Lys Val Asp Gln 135 Ile Cys His Lys Asn Ser Ile Lys Phe Phe Thr Gly Asp Val Phe Gly Tyr His Gly Tyr Thr Phe Ala Asn Leu Gly Glu His Glu Phe Val Glu Glu Lys Thr Lys Val Ala Lys Val Ser Gln Gly Val Glu Asp Gly Pro 180 185 Asp Thr Lys Arg Ala Lys Leu Asp Ser Ser Glu Thr Thr Met Val Lys 200 Lys Lys Val Val Phe Cys Pro Val Lys Glu Ala Leu Glu Val Asp Trp Ser Ser Glu Lys Ala Lys Ala Ala Leu Lys Arg Thr Thr Ser Asp Tyr 235 Phe Leu Leu Gln Val Leu Leu Lys Phe Arg Thr Asp Lys Gly Arg Asp 245 250 Pro Ser Ser Asp Thr Tyr Glu Glu Asp Ser Glu Leu Leu Gln Ile 265 Arg Asn Asp Val Leu Asp Ser Leu Gly Ile Ser Pro Asp Leu Leu Pro 280 Glu Asp Phe Val Arg Tyr Cys Phe Ser Glu Met Ala Pro Val Cys Ala Val Val Gly Gly Ile Leu Ala Gln Glu Ile Val Lys Ala Leu Ser Gln 315 Arg Asp Pro Pro His Asn Asn Phe Phe Phe Asp Gly Met Lys Gly 325 330

Asn Gly Ile Val Glu Cys Leu Gly Pro Lys 340 345

<210> 1840

<211> 155

<212> PRT

<213> Homo sapiens

. <220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1840

Met Gln His Gln Leu His Leu Leu Ile Cys Trp Gly Lys Gly Ser Lys

1 10 15

Ser Asn Thr Ser Cys Leu Gly Pro Val Leu Ser Cys Ser Asn Met Trp 20 25 30

Ser Leu Ala Leu Leu Val Val Ala Gly Ser Met Gly Val Ala Tyr Ser-35 40 45

Ser Val Val Met Tyr Val Leu Leu Trp Val Pro Leu Pro Leu Pro Ser 50 60

His Phe Leu Pro Ser Gly Ala Pro Glu Ala Gln Pro Thr Thr Trp Ala 65 70 75 80

Gln Ser Pro His Ser Val Cys Lys Cys Gly Thr Xaa Leu Gly Pro Ala 85 90 95

Lys Pro Gln Gly Pro Ser Leu Pro Xaa Pro Pro Cys Leu Ile Met Leu $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Leu Ser Cys Arg Arg Gln Leu Gly Leu Ala Pro Ser Xaa Trp Leu Pro 115 120 125

Gly Xaa Gly Ser His Gly Gly Glu Leu Arg Gly Cys Ser Gln Gly Trp 130 135 140

Ala Pro Gly Ile Ala His Leu Asn Ile Cys Thr

145 150 · 155

.<210> 1841

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1841

Tyr Thr Phe Gln Cys Leu Ser Gln Thr Cys Ser Tyr Asp Ile Lys Cys

1 10 15

Tyr Phe Leu Val Ala Lys Ile Ile Leu Asp Ser Val Ile Lys Val Tyr 20 25 30

Trp Asn Leu Asn Phe Lys Met Ser Pro Asp 35 40

<210> 1842

<211> 265

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1842

Pro Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly
1 5 10 15

Ser Pro Gly Leu Gln Xaa Phe Gly Thr Arg Arg Thr Arg Gly Arg Ser 20 25 30

Gly Arg Ala Gln Gly Arg Leu Lys Arg Pro Gly Lys Leu Ala Cys Arg 35 . 40 45

Lys Phe Pro Gly Arg Arg Gln Arg Val Val Pro Glu Leu Thr Asp Val 50 55 60

Leu Met Asn Glu Ile Leu His Gly Ala Asp Gly Thr Ser Ile Lys Cys 65 70 75 80

Gly Ile Ile Gly Glu Ile Gly Cys Ser Trp Pro Leu Thr Glu Ser Glu 85 90 . 95

Arg Lys Val Leu Gln Ala Thr Ala His Ala Gln Ala Gln Leu Gly Cys 100 105 110

Pro Val Ile Ile His Pro Gly Arg Ser Ser Arg Ala Pro Phe Gln Ile 115 120 125

Ser His Leu Asp Arg Thr Ile Leu Asp Lys Lys Glu Leu Leu Glu Phe

145 150 155 160

Ala Gln Leu Gly Cys Tyr Leu Glu Tyr Asp Leu Phe Gly Thr Glu Leu 165 170 175

Leu His Tyr Gln Leu Gly Pro Asp Ile Asp Met Pro Asp Asp Asn Lys
180 185 190

Arg Ile Arg Arg Val Arg Leu Leu Val Glu Glu Gly Cys Glu Asp Arg 195 200 205

Ile Leu Val Ala His Asp Ile His Thr Lys Thr Arg Leu Met Lys Tyr 210 215 220

Gly Gly His Gly Tyr Ser His Ile Leu Thr Asn Val Val Pro Lys Met 225 230 235 240

Leu Leu Arg Gly Ile Thr Glu Asn Val Leu Asp Lys Ile Leu Ile Glu 245 250 255

Asn Pro Lys Gln Trp Leu Thr Phe Lys . 260 . 265

<210> 1843

<211> 503

<212> PRT

<213> Homo sapiens

<400> 1843

Met Glu Gln Arg His Val Leu Leu Lys Gln Lys Glu Leu Gly Gly Glu 1 5 10 15

Glu Pro Glu Pro Ser Leu Arg Glu Gly Pro Gly Gly Leu Val Met Glu 20 25 30

Gly His Leu Phe Lys Arg Ala Ser Asn Ala Phe Lys Thr Trp Ser Arg . 35 40 45

Arg Trp Phe Thr Ile Gln Ser Asn Gln Leu Val Tyr Gln Lys Lys Tyr 50 55 60

Lys Asp Pro Val Thr Val Val Val Asp Asp Leu Arg Leu Cys Thr Val 65 70 75 80

Lys Leu Cys Pro Asp Ser Glu Arg Arg Phe Cys Phe Glu Val Val Ser 85 90 95

Thr Ser Lys Ser Cys Leu Leu Gln Ala Asp Ser Glu Arg Leu Leu Gln 100 105 110

Leu Trp Val Ser Ala Val Gln Ser Ser Ile Ala Ser Ala Phe Ser Gln
115 120 125

Ala Arg Leu Asp Asp Ser Pro Arg Gly Pro Gly Gln Gly Ser Gly His
130 135 140

Leu Ala Ile Gly Ser Ala Ala Thr Leu Gly Ser Gly Gly Met Ala Arg 145 150 155 160

Gly Arg Glu Pro Gly Gly Val Gly His Val Val Ala Gln Val Gln Ser Val Asp Gly Asn Ala Gln Cys Cys Asp Cys Arg Glu Pro Ala Pro Glu 185 Trp Ala Ser Ile Asn Leu Gly Val Thr Leu Cys Ile Gln Cys Ser Gly 200 Ile His Arg Ser Leu Gly Val His Phe Ser Lys Val Arg Ser Leu Thr Leu Asp Ser Trp Glu Pro Glu Leu Val Lys Leu Met Cys Glu Leu Gly 230 Asn Val Ile Ile Asn Gln Ile Tyr Glu Ala Arg Val Glu Ala Met Ala 250 -Val Lys Lys Pro Gly Pro Ser Cys Ser Arg Gln Glu Lys Glu Ala Trp 265 Ile His Ala Lys Tyr Val Glu Lys Lys Phe Leu Thr Lys Leu Pro Glu 280 Ile Arg Gly Arg Arg Gly Gly Arg Gly Arg Pro Arg Gly Gln Pro Pro Val Pro Pro Lys Pro Ser Ile Arg Pro Arg Pro Gly Ser Leu Arg Ser 315 320 Lys Pro Glu Pro Pro Ser Glu Asp Leu Gly Ser Leu His Pro Gly Ala 325 330 Leu Leu Phe Arg Ala Ser Gly His Pro Pro Ser Leu Pro Thr Met Ala 340 345 . 350 -Asp Ala Leu Ala His Gly Ala Asp Val Asn Trp Val Asn Gly Gly Gln Asp Asn Ala Thr Pro Leu Ile Gln Ala Thr Ala Ala Asn Ser Leu Leu Ala Cys Glu Phe Leu Leu Gln Asn Gly Ala Asn Val Asn Gln Ala Asp 390 Ser Ala Gly Arg Gly Pro Leu His His Ala Thr Ile Leu Gly His Thr Gly Leu Ala Cys Leu Phe Leu Lys Arg Gly Ala Asp Leu Gly Ala Arg 425 Asp Ser Glu Gly Arg Asp Pro Leu Thr Ile Ala Met Glu Thr Ala Asn Ala Asp Ile Val Thr Leu Leu Arg Leu Ala Lys Met Arg Glu Ala Glu Ala Ala Gln Gly Gln Ala Gly Asp Glu Thr Tyr Leu Asp Ile Phe Arg 470

Asp Phe Ser Leu Met Ala Ser Asp Asp Pro Glu Lys Leu Ser Arg Arg · 490 Ser His Asp Leu His Thr Leu 500 <210> 1844 <211> 25 <212> PRT <213> Homo sapiens <400> 1844 Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser 10 Leu Met Ala Pro Leu Pro Ser Ala His 20 . <210> 1845 <211> 25 <212> PRT <213> Homo sapiens <400> 1845 Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser 10 Leu Met Ala Pro Leu Pro Ser Ala His 20 <210> 1846 <211> 6 <212> PRT <213> Homo sapiens <400> 1846 Val Phe Gln Ile Tyr Leu

<210> 1847

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1847

Val Phe Gln Ile Tyr Leu

<210> 1848

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1848

Met Leu Val Leu Leu Leu Asp Phe Leu Gly Leu Val His Leu Gly Gln

1 10 15

Leu Leu Ile Phe His Ile Tyr Leu Lys Ala Lys Lys Met Thr Thr Phe 20 25 30

Glu Tyr Leu Ile Asn Asn Arg Lys Glu Glu Ser Ser Lys His Gln Ala 35 40 45

Val Arg Lys Asp Pro Tyr Val Gln Met Asp Lys Gly Val Leu Gln Gln 50 55 60

Gly Ala Gly Ala Leu Gly Ser Ser Ala Gln Gly Val Lys Ala Lys Ser 65 70 75 80

Ser Leu Leu Ile His Lys His Leu Cys His Phe Cys Thr Ser Val Asn 85 90 95

Gln Asp Gly Asp Ser Thr Ala Arg Val His Leu 100 105

<210> 1849

<211>.245

<212> PRT

<213> Homo sapiens

<400> 1849

Met Leu Gln Ala Arg Asn Gln Ser Pro Ser Ser Gln Arg Pro Leu Asp
1 5 10 15

Val Leu Arg Arg Asn Gln Asp Pro Gln Ser Pro Ala Ser Ile Ser Val 20 25 30

Ile Ile Phe Ile Thr Pro Lys Glu Glu Pro Ala Leu Gln Glu Gly Leu
35 40 45

His Leu Gln Glu Asp Gly Leu Pro Ala Thr Ala Glu Asp Ala Ala Thr 50 55 60

Cys Leu Thr Val Leu Ser Ser Gln Pro Ala Ser Cys Arg Ala Ser Cys 65 70 . 75 80

Cys Leu Arg Ala Asp Gly Pro Gly Met Leu Ala His Thr Cys Glu His 85 90 95

Ser Thr Gly Lys Trp Glu His Ser Thr Arg Lys Trp Glu His Ser Thr 100 105 110

Gly Lys Trp Glu His Ser Thr Gly Lys Trp Gly Leu Thr Ala Leu Gln
115 120 125

Asn Gly Ser Thr Val Leu Gly Asn Gly Ser Thr Val Leu Gly Ser Gly
130 135 140

Ser Thr Val Leu Arg Ser Gly Ser Thr Val Leu Arg Asn Gly Ser Thr

150

Leu Leu Arg Asn Gly Ser Thr Val Leu Gly Asn Gly His Thr Val Leu 165 170 Gly Asn Gly His Thr Val Leu Arg Asn Gly Ser Thr Val Leu Gly Asn _ 180 185 Gly Ser Thr Val Leu Gly Asn Gly Ser Pro Gln Tyr Trp Glu Arg Gly 200 Val His Ser Thr Arg Lys Trp Glu His Ser Thr Gly Lys Trp Glu His 215 · Ser Thr Gly Lys Trp Glu His Ser Thr Gly Lys Pro Gln Thr Trp Ile 230 235 Leu Ser Phe Ser Ala . 245 <210> 1850 <211> 209 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (136) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (161) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (169) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (197) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1850 Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala 1190 . .

50 55 60

Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn
65 70 · 75 80

Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu 85 90 95

Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser

Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Trp Gly Ala 115 120 125

Pro Pro Cys Arg Ala Ser Pro Xaa Pro Thr Arg His Ala Cys His Phe 130 135 140

Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr Arg 145 150 155 160

Xaa Phe Leu Glu Gly Phe Val Asp Xaa Leu Leu Glu Ala Leu Arg Ser 165 170 175

Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val
180 185 190

Asp Ser Met Tyr Xaa Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His 195 200 205

Leu

<210> 1851

<211> 547

<212> PRT

<213> Homo sapiens

<400> 1851

Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile

1 5 10 15

Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu 20 25 30

Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu
35 40 45

Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala 50 55 60

Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn 65 70 75 80

Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu 85 90 95

Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser 100 105 110

Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Leu Gly Gly Ala Pro Leu Gln Gly Leu Thr Leu Pro Asn Lys Ala Thr Leu Gly His 135 Phe Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr 155 Arg Glu Phe Leu Glu Gly Phe Val Asp Asp Leu Leu Glu Ala Leu Arg Ser Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val Asp Ser Met Tyr Glu Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His Leu Phe Val Pro Phe Thr Pro Pro Glu Pro Tyr Arg Phe His Pro 210 215 Glu Leu Trp Cys Ser Gly Arg Ser Val Pro Leu Asp Arg Gln Gly Tyr Gly Gln Ile Lys Val Val Arg Ala Asp Gly Asp Thr Leu Ser Cys Ile Cys Gly Lys Thr Lys Leu Gly Glu Asp Met Leu Cys Leu Leu His Gly 265 Arg Asn Ser Met Ala Pro Pro Cys Gly Asp Met Glu Asn Leu Leu Cys Ala Thr Asp Ser Leu Tyr Leu Asp Thr Met Gln Val Met Lys Trp Phe 295 Gln Thr Ala Leu Thr Arg Ala Trp Lys Gly Ile Ala His Lys Tyr Glu Phe Asp Leu Ala Phe Gly Gln Leu Asp Ser Pro Gly Ser Leu Lys Ile 330 Lys Phe Arg Ser Gly Lys Phe Met Pro Phe Asn Leu Ile Pro Val Ile Gln Cys Asp Asp Ser Asp Leu Tyr Phe Val Ser His Leu Pro Arg Glu 355 360 Pro Ser Glu Gly Thr Pro Ala Ser Ser Thr Asp Trp Leu Leu Ser Phe Ala Val Tyr Glu Arg His Phe Leu Arg Thr Thr Leu Lys Ala Leu Pro 390 Glu Gly Ala Cys His Leu Ser Cys Leu Gln Ile Ala Ser Phe Leu Leu 405 410 Ser Lys Gln Ser Arg Leu Thr Gly Pro Ser Gly Leu Ser Ser Tyr His 420 425

Leu Lys Thr Ala Leu Leu His Leu Leu Leu Leu Arg Gln Ala Ala Asp 435 . 440 445

Trp Lys Ala Gly Gln Leu Asp Ala Arg Leu His Glu Leu Leu Cys Phe 450 455 460

Leu Glu Lys Ser Leu Leu Gln Lys Lys Leu His His Phe Phe Ile Gly 465 470 475 480

Asn Arg Lys Val Pro Glu Ala Met Gly Leu Pro Glu Ala Val Leu Arg 485 490 495

Ala Glu Pro Leu Asn Leu Phe Arg Pro Phe Val Leu Gln Arg Ser Leu 500 505 510

Tyr Arg Lys Thr Leu Asp Ser Phe Tyr Glu Met Leu Lys Asn Ala Pro 515 520 525

Ala Leu Ile Ser Glu Tyr Ser Leu His Val Pro Ser Asp Gln Pro Thr 530 535 540

Pro Lys Ser 545

<210> 1852

<211> 213

<212> PRT

<213> Homo sapiens

<400> 1852

Leu Leu Phe Leu Ser Leu Leu Gln Met Gln Glu Leu Leu Gly Arg Gly
1 5 10 15

Ala Trp Ala Pro Gly Cys Gly Arg Arg Pro Ser Gly Trp Gly Gln Leu 20 25 30

Ala Cys Pro Asp Pro Leu Leu Pro Pro His Asn Pro Lys Ser Pro Gln
35 40 45

Pro Gly Pro Ser Thr Ser Gly Val Trp Gly Glu Glu Glu Gln Gly Leu Arg 50 60

Thr Leu Ser Ser Glu His Pro Trp Gln Gly Leu Gln Pro Leu Ile Ser 65 70 75 80

Ser Leu Lys Pro Cys Gly His Thr Ala Arg Arg Asp Leu Pro Leu Ala 85 90 95

Pro Ala Ser Phe Gln Pro Arg Val Leu Ile Gln Gly Pro Arg Thr Val

Pro Pro Val Leu Leu Cys Pro Gln His Lys Ala Arg Leu His Ser Gln 115 120 125

Lys Cys Ser Gln Ala Leu Glu Gly Asp Pro Ala Ser Ser Pro Thr Ala 130 135 140

Pro His Pro Thr His Pro Ser Ala Ala Pro Leu Leu Phe Pro Arg Asp 145 150 155 160

Leu Ser Tyr Thr Gly Gln Glu Ala Ala Glu Arg Val Ser Pro Pro Pro 165 170 175

Ser Lys Arg Ser Cys Ser Leu Cys Gln Asn Arg Val Trp Ala Gly Gly 180 185 190

Arg Ala Leu Gly Ala Arg Pro Leu Pro Leu Pro Ala Gly Phe Ser Trp
195 200 205

Ser Leu Cys Trp Lys 210

<210> 1853

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE.

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1853.

Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro 1 5 10 15

Thr Leu Ala Phe Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys 20 25 30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser 35 40 . 45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg 50 55 60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp 65 70 75 80

Leu Ala Tyr His Ser Ala Val His Gly Ile Xaa Asp Leu Met Ser Gln 85 : 90 95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr 100 105 110

Leu Pro Pro Ala Glu Thr Ala Arg Ser Ala Arg Thr Ala Pro Arg Ser

115 120 125

Ala Ile Thr Arg Arg Ala Phe Thr Ser Thr Arg Xaa Pro Pro Thr Thr 130 135 140

Arg Thr Val Ala Ser Ser Gly Thr His Thr Phe Arg Thr Phe Thr Asp 145 150 155 160

Arg Phe Gln Thr Cys Lys Val Gln Xaa Arg Leu Ala Ala His Arg Gln
165 170 175

Leu Ile Thr

<210> 1854

<211> 357

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (325)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (329)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (335).

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (338)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE -

<222> (339)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1854

Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro 1 5 10

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys
20 25 30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser 35 40 45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln 85 His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr 105 Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile 120 Cys His Tyr Glu Lys Ser Phe His Lys His Ser Xaa Thr Pro Asn Tyr 135 Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn 170 165 Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser 180 185 Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln 200 Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro 215 Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg 260 265 Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro 295 Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly 315 Thr Gly Ala Arg Xaa Leu Ala Ala Xaa Ser Leu Asp Pro Gln Xaa Pro Arg Xaa Xaa His Thr Arg Gln Ala Val Ala Lys Cys Lys Glu Lys Leu 340 345 Pro Val Glu Asp Leu

1196

· 355

<210> 1855

<211> 434

<212> PRT

<213> Homo sapiens

<400> 1855

Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro 1 5 10 15

Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys
20 25 30

Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser 35 40 45

His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg 50 55 60

Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp 65 70 75 80

Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln 85 90 95

His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr 100 105 110

Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile 115 120 125

Cys His Tyr Glu Lys Ser Phe His Lys His Ser Ala Thr Pro Asn Tyr 130 135 140

Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp 155 150 155

Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn 165 170 175

Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser 180 185 190

Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln . 195 200 205

Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro 210 215 220

Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala 225 230 235 240

Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile 245 250 255

Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg 260 265 270

Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val 275 280 285

Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro 290 295 300

Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly 305 310 315 320

Thr Gly Ala Arg Arg Leu Ala Ala Ala Ser Pro Ala Pro Thr Ala Pro 325 330 335

Glu Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys Glu Lys Leu 340 345 350

Pro Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val Phe Asp Leu Leu Thr 355 360 365

Thr Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala Leu Glu Asp 370 380

Val Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu Tyr Glu Arg 385 390 395 400

Thr Arg Asp Leu Pro Gly Arg Ala Ala Gly Leu Pro Leu Ala Pro
405 410 415

Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu Ala Leu Leu Pro Val 420 425 430

Phe Cys

<210> 1856

<211> 712

<212> PRT

<213> Homo sapiens

<400> 1856

Met Gly Gln Gly Leu Lys Ala Trp Pro Arg Tyr Arg Val Val Gly Ser 1 5 10 15

Ala Asp Ala Gly Gln Tyr Asn Leu Glu Ile Thr Asp Ala Glu Leu Ser 20 25 30

Asp Asp Ala Ser Tyr Glu Cys Gln Ala Thr Glu Ala Ala Leu Arg Ser 35 40 . 45

Arg Arg Ala Lys Leu Thr Val Leu Ile Pro Pro Glu Asp Thr Arg Ile 50 55 60

Asp Gly Gly Pro Val Ile Leu Leu Gln Ala Gly Thr Pro His Asn Leu 65 70 75 80

Thr Cys Arg Ala Phe Asn Ala Lys Pro Ala Ala Thr Ile Ile Trp Phe
85 90

Arg Asp Gly Thr Gln Gln Glu Gly Ala Val Ala Ser Thr Glu Leu Leu

100	105	11

Lys Asp Gly Lys Arg Glu Thr Thr Val Ser Gln Leu Leu Ile Asn Pro 115 120 125

- Thr Asp Leu Asp Ile Gly Arg Val Phe Thr Cys Arg Ser Met Asn Glu 130 135 140
- Ala Ile Pro Ser Gly Lys Glu Thr Ser Ile Glu Leu Asp Val His His 145 150 155 160
- Pro Pro Thr Val Thr Leu Ser Ile Glu Pro Gln Thr Val Gln Glu Gly
 165 170 175
- Glu Arg Val Val Phe Thr Cys Gln Ala Thr Ala Asn Pro Glu Ile Leu 180 185 190
- Gly Tyr Arg Trp Ala Lys Gly Gly Phe Leu Ile Glu Asp Ala His Glu 195 200 205
- Ser Arg Tyr Glu Thr Asn Val Asp Tyr Ser Phe Phe Thr Glu Pro Val 210 215 220
- Ser Cys Glu Val His Asn Lys Val Gly Ser Thr Asn Val Ser Thr Leu 225 230 235 240
- Val Asn Val His Phe Ala Pro Arg Ile Val Val Asp Pro Lys Pro Thr 245 250 255
- Thr Thr Asp Ile Gly Ser Asp Val Thr Leu Thr Cys Val Trp Val Gly 260 265 270
- Asn Pro Pro Leu Thr Leu Thr Trp Thr Lys Lys Asp Ser Asn Met Gly 275 280 285
- Pro Arg Pro Pro Gly Ser Pro Pro Glu Ala Ala Leu Ser Ala Gln Val 290 295 300
- Leu Ser Asn Ser Asn Gln Leu Leu Leu Lys Ser Val Thr Gln Ala Asp 305 310 315 320
- Ala Gly Thr Tyr Thr Cys Arg Ala Ile Val Pro Arg Ile Gly Val Ala 325 330 335
- Glu Arg Glu Val Pro Leu Tyr Val Asn Gly Pro Pro Ile Ile Ser Ser 340 345 350
- Glu Ala Val Gln Tyr Ala Val Arg Gly Asp Gly Gly Lys Val Glu Cys 355 360 365
- Phe Ile Gly Ser Thr Pro Pro Pro Asp Arg Ile Ala Trp Ala Trp Lys 370 375 380
- Glu Asn Phe Leu Glu Val Gly Thr Leu Glu Arg Tyr Thr Val Glu Arg 385 390 395 400
- Thr Asn Ser Gly Ser Gly Val Leu Ser Thr Leu Thr Ile Asn Asn Val 405 410 415
- Met Glu Ala Asp Phe Gln Thr His Tyr Asn Cys Thr Ala Trp Asn Ser

430

420 425

Phe Gly Pro Gly Thr Ala Ile Ile Gln Leu Glu Glu Arg Glu Val Leu 435 440 445

Pro Val Gly Ile Ile Ala Gly Ala Thr Ile Gly Ala Ser Ile Leu Leu 450 460

Ile Phe Phe Phe Ile Ala Leu Val Phe Phe Leu Tyr Arg Arg Arg Lys 470 475 480

Gly Ser Arg Lys Asp Val Thr Leu Arg Lys Leu Asp Ile Lys Val Glu 485 490 495

Thr Val Asn Arg Glu Pro Leu Thr Met His Ser Asp Arg Glu Asp Asp 500 505 510

Thr Ala Ser Val Ser Thr Ala Thr Arg Val Met Lys Ala Ile Tyr Ser 515 520 525

Ser Phe Lys Asp Asp Val Asp Leu Lys Gln Asp Leu Arg Cys Asp Thr 530 540

Ile Asp Thr Arg Glu Glu Tyr Glu Met Lys Asp Pro Thr Asn Gly Tyr 545 550 555 560

Tyr Asn Val Arg Ala His Glu Asp Arg Pro Ser Ser Arg Ala Val Leu 565 570 575

Tyr Ala Asp Tyr Arg Ala Pro Gly Pro Ala Arg Phe Asp Gly Arg Pro 580 585 590

Ser Ser Arg Leu Ser His Ser Ser Gly Tyr Ala Gln Leu Asn Thr Tyr 595 600 605

Ser Arg Gly Pro Ala Ser Asp Tyr Gly Pro Glu Pro Thr Pro Pro Gly 610 620

Pro Ala Ala Pro Ala Gly Thr Asp Thr Thr Ser Gln Leu Ser Tyr Glu 625 630 635 640

Asn Tyr Glu Lys Phe Asn Ser His Pro Phe Pro Gly Ala Ala Gly Tyr 645 650 655

Pro Thr Tyr Arg Leu Gly Tyr Pro Gln Ala Pro Pro Ser Gly Leu Glu 660 665 670

Arg Thr Pro Tyr Glu Ala Tyr Asp Pro Ile Gly Lys Tyr Ala Thr Ala 675 680 685

Thr Arg Phe Ser Tyr Thr Ser Gln His Ser Asp Tyr Gly Gln Arg Phe 690 695 700

Gln Gln Arg Met Gln Thr His Val 705 710

<210> 1857 <211> 81

<212> PRT

<213> Homo sapiens

<400> 1857

Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val 1 5 10 15

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu 20 25 30

Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His 35 40 45

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu 50 55 60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser 65 70 75 80

Val

<210> 1858

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1858

Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val 1 5 10

Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu 20 25 30

Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His 35 \$40\$

Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu
50 60

Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser 65 70 75 80

· Val

<210> 1859

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1859

Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe 1 5 10 15 ·

Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe

. 20 25 30

Arg Ser Leu Asp Pro Gly Ala Glu Leu Val Gly Phe Glu Ser His Leu 35 40 45

Tyr His Cys Cys Val Thr Ser Gly Asn Leu Pro Asn Phe Pro Gly Pro 50 55 60

Gln Phe Ser Tyr Ile Glu Asn Gly Asn Asn Lys Ser Ile Cys Phe Ile 65 70 75 80

Gly Leu Leu Arg Glu Phe Ala Asn Ser Ile Tyr Ala Asn Leu Leu Asp 85 90 95

Gln Cys Leu Ala His Asn Ser Gln 100

<210> 1860

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1860

Met Tyr Trp Gly Ile Phe Phe Ser Ile Leu Asn Phe Leu Ala Phe Phe 1 5 10 15

Ser Leu Val Leu Ile Ser Val Leu Leu Trp Thr Gly Met Val Val Phe 20 25 30

Arg Ser Leu Asp Pro Gly Ala Glu Leu Val Gly Phe Glu Ser His Leu 35 40 45

Tyr His Cys Cys Val Thr Ser Gly Asn Leu Pro Asn Phe Pro Gly Pro 50 55 60

Gln Phe Ser Tyr Ile Glu Asn Gly Asn Asn Lys Ser Ile Cys Phe Ile 65 70 75 80

'Gly Leu Leu Arg Glu Phe Ala Asn Ser Ile Tyr Ala Asn Leu Leu Asp 85 90

Gln Cys Leu Ala His Asn Ser Gln 100

<210> 1861

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1861
Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr
Cys Ser Val Ser Asn Glu Xaa Tyr Ala Val Ile Phe Asn Phe Pro
Leu Tyr Ile Xaa Phe Leu Ser Asp Cys Phe Lys Xaa Phe Ser Leu Ser
        35
                            40
Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe
Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser
                    70
<210> 1862
<211> 72
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (11)
<223> Kaa equals any of the naturally occurring L-amino acids
<400> 1862
Xaa Tyr Thr Phe Val Asn Ser Arg Ser Xaa Xaa Leu Ile Asp Phe Leu
                                 · 10
Cys Val Ile Met Gly His Leu Phe Leu Val His Phe Met Pro Asp Ile
Leu Lys Phe Lys Thr Lys Tyr Cys Glu Phe Tyr Leu Val Leu Cys Trp
                            40
Ile Phe Phe Val Phe Leu Ser Thr Ile Met Ser Phe Leu Leu Gly Cys
                                           60 .
                        55
```

Ser Tyr Ser His Trp Lys Gln Phe

65 70

<210> 1863

<211> 75·

<212> PRT

<213> Homo sapiens

<400> 1863

Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Cys Ser Val Ser Asn Glu Gln Tyr Ala Val Ile Phe Asn Phe Pro 20 25 30

Leu Tyr Ile Cys Phe Leu Ser Asp Cys Phe Lys Cys Phe Ser Leu Ser 35 40 45

Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe 50 55 60

Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser 65 70 75

<210> 1864

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

(<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1864

Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln 1 5 . 10 15

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu 20 25 30

Pro Leu Gly Arg Xaa Thr Ser Gly Lys Val Gln Gly Asp Ser Thr Thr 35 40 45

Val Lys Leu Arg Phe Gly Leu Gln Leu Gly Val Leu Gly Gln Arg
50 55 60

<210> 1865

<211> 157

<212> PRT

<213> Homo sapiens

<400> 1865

Gly Gln Arg Gly Arg Pro Ala Ala Thr Ser His Arg Ile Leu Ser Ser 1 5 10 15

His Ser Leu Ala Ser Gly Cys Pro Val Phe Arg Gly Gly Glu Gly Thr 20 25 30

Gly Ala Arg Ser Thr Pro Leu Ala Leu Leu Leu Asp Pro Lys Ala Arg 35 40 45

Pro Asp Pro Phe Ile Pro Trp Gly Ala Pro Ala Ser Ala Ile Gly Met 50 55

Arg Ser Leu Lys Ser Leu His Lys Gln Val Arg Asp Pro Pro Thr Cys 65 70 75 80

Arg Ser Trp Ala Thr Pro Arg Ala Ile Pro Arg Gly Cys Gly Arg Thr 85 90 95

Gln Pro Pro Thr Asp Arg Pro Glu Ser Ser Glu Gly Ala Ile Pro 100 105 . 110

Ile Pro Thr Ser Gly Glu Ala Arg Thr Ala Ile Val Ala Ser Gly Lys 115 120 125

Thr Gln Leu Glu Pro Asn Gly Pro Cys Pro His Cys Asn Cys Ala Glu 130 135 140

Asn Val Ser Gln Met Thr Gln Ile Gly Ser Tyr Phe Phe 145 150 155

<210> 1866

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1866

Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln
1 5 10 15

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu 20 25 30

Pro Leu Gly Arg Gly Thr Leu Glu Gly Gln Gly Asp Pro Gln Leu 35 40 45

<210> 1867

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1867

Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met

1 5 10 15

Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe 20 25 30

Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met

35 40 45

Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His 50 60

Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val 65 ' 70 75 80

Asp Phe Pro Leu Met Cys Phe Leu Leu 85

<210> 1868

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1868

Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met·
1 5 10 15

Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe 20 25 30

Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His 50 55 60

Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val 65 70 75 80

Asp Phe Pro Leu Met Cys Phe Leu Leu 85

<210> 1869

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1869

Met Leu Ile Ser Lys Gly Val Gln Leu Leu Cys Lys Ala Val Tyr Pro 1 . 5 10 15

Ser His Leu Trp Ser Phe Leu Val Leu Leu Phe Thr Val Met Lys Thr 20 25 30

Glu Pro Val Ser Ala Leu Gly Cys Gly Asp Gln Cys His Gln Ser Leu 35 40 45

Leu Leu Arg Asp Tyr Pro Leu Ala Asn Ile Pro Ile Cys Gly Trp Ala 50 55 60

Trp Arg Val Tyr Leu Phe Leu Gly Cys Val Cys Ile Cys Val Cys Val 65 70 75 80

Cys Val Cys Val Phe Asn Ser Ser Val Cys Lys Leu Phe · 85 90

<210> 1870 <211> 304 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (98) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (166) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (231) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1870 Met Ser Ser Ser Glu Met Trp Thr Val Leu Trp His Arg Phe Ser Met Val Leu Arg Leu Pro Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser 25 Leu Ser Ser Pro Pro Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro Gln Gly Ile Phe Leu Ser His Gly Ser Ile Leu Met Ser Ile Leu Lys His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala Pro His 70 Gly Ser Glu Phe Leu Pro Val Val Val Leu Ser Val Cys Gln Leu Leu 85 . 90 Cys Xaa Pro Phe Ala Leu Asp Met Asp Ala Asp Leu Leu Ile Asp Val Leu Ala Asp Leu Arg Asp Ser Glu Val Ala Ala His Leu Leu Gln Val 120 Cys Cys Tyr His Leu Pro Leu Met Gln Val Glu Leu Pro Ile Ser Leu Leu Thr Arg Leu Ala Leu Met Asp Pro Thr Ser Leu Asn Gln Phe Val 150 155

Ala Leu Leu Ser Asp Gln Pro Leu Leu Thr Ser Asp Leu Leu Ser Leu

Asn Thr Val Ser Ala Xaa Pro Arg Thr Ile Val Ser Phe Leu Ser Val

165

170

180 185 190

Leu Ala His Thr Ala Arg Val Leu Ser Pro Ser His Leu Ser Phe Ile 195 200 205

Gln Glu Leu Leu Ala.Gly Ser Asp Glu Ser Tyr Arg Pro Leu Arg Ser 210 215 220

Ser Trp Ala Thr Gln Arg Xaa Leu Cys Gly His Thr Leu Ile Gly Ser 225 230 235 240

Trp Asp Thr Cys Ser Asn Thr Ala Trp Pro Cys Val Gly His Cys Arg 245 250 255

Ala Ser Leu Asp Cys Ser Ala Phe Cys Cys Leu Gly Leu Glu Thr Arg 260 265 270

Ile Leu Cys Gly Ala Val Pro Ala Leu Leu Trp Ala Met Gln Pro 275 280 285

Thr Arg Leu Val Leu Trp Asp Leu Pro Trp Gln Leu Gln Cys Pro Val 290 295 300

<210> 1871

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> ''

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1871

Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly
1 5 10 15

Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn 20 25 30

Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn 35 40 45

Gly Cys Cys Asn Asn Xaa Ser Arg Val Leu Cys Ser Ser Pro Ala Pro
50 55 60

Arg Tyr Leu Gly Arg Pro Xaa Lys Glu Lys Thr Ile Val Ile Arg Pro 65 70 75 80

Pro Phe Leu Arg Pro Arg Ser Phe Xaa Trp Ala 85 90

<210> 1872

<211> 210

<212> PRT

<213> Homo sapiens

<400> 1872

Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly
1 5 10 15

Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn 20 25 30

Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn 35 40 45

Gly Cys Cys Asn Asn Val Ser Arg Val Leu Cys Ser Ser Pro Ala Pro 50 55 60

Arg Tyr Leu Gly Arg Pro Lys Lys Glu Lys Thr Ile Val Ile Arg Pro 65 70 75 80

Pro Phe Leu Arg Pro Glu Val Ser Asp Gly Gln Ile Thr Val Lys Ile 85 90 95

Met Asp Asn Gly Ile Gln Gly Glu Leu Arg Arg Thr Lys Ser Lys Gly 100 105 110

Ser Leu Glu Ile Thr Glu Ser Gln Ser Ala Asp Ala Glu Pro Pro Pro 115 120 125

Pro Pro Lys Pro Asp Leu Ser Arg Tyr Thr Gly Leu Arg Thr His Leu 130 135 140

Gly Leu Ala Thr Asn Glu Asp Ser Ser Leu Leu Ala Lys Asp Ser Pro 145 150 155 160

Pro Thr Pro Thr Met Tyr Lys Tyr Arg Pro Gly Tyr Ser Ser Ser Ser 165 170 175

Thr Ser Ala Ala Met Pro His Ser Ser Ser Ala Lys Val Leu Ser Thr 180 185 190

Leu Arg Gly Gly Val Ile Thr Cys Gln Leu Ala Arg His Ser Gly Ser 195 200 205

. Phe Leu 210

<210> 1873

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1873

Met Gly Pro Leu Ser Pro Ala Arg Thr Leu Arg Leu Trp Gly Pro Arg 1 5 10 15

Ser Leu Gly Val Ala Leu Gly Val Phe Met Thr Ile Gly Phe Ala Leu 20 25 30

Gln Leu Leu Gly Gly Pro Phe Gln Arg Arg Leu Pro Gly Leu Gln Leu 35 40 45

Arg Gln Pro Ser Xaa Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys Pro 50 55 60

Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser Ser 65 70 75 80

Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu Arg 85 90 95

Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe Gln 100 105 110

Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln Leu 115 120 125

Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu Val 130 135 140

Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg Asp 145 150 155 160

Pro Ala Ala Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr Ser 165 170 175

Ser Ala Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn Pro 180 185 190

Arg

<210> 1874

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (171)
<223> Kaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (442)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1874
Met Thr Ile Gly Phe Ala Leu Gln Leu Leu Gly Gly Pro Phe Gln Arg
                  5
Arg Leu Pro Gly Leu Gln Leu Arg Gln Pro Ser Xaa Pro Ser Leu Arg
                                 25
Pro Ala Leu Pro Ser Cys Pro Pro Arg Gln Arg Leu Val Phe Leu Lys
                            40
Thr His Lys Ser Gly Ser Ser Ser Val Leu Ser Leu Leu His Arg Tyr
                         55
Gly Asp Gln His Gly Leu Arg Phe Ala Leu Pro Ala Arg Tyr Gln Phe
                    70
Gly Tyr Pro Lys Leu Phe Gln Ala Ser Arg Val Lys Gly Tyr Arg Pro
Gln Gly Gly Gly Thr Gln Leu Pro Phe His Ile Leu Cys His His Met
                              105
Arg Phe Asn Leu Lys Glu Val Leu Gln Val Met Pro Ser Asp Ser Phe.
Phe Phe Ser Ile Val Arg Asp Pro Ala Ala Leu Ala Arg Ser Ala Phe
                        135
Ser Tyr Tyr Lys Ser Thr Ser Ser Ala Phe Arg Lys Ser Pro Ser Leu
                    150
                                        155
Ala Ala Phe Leu Ala Asn Pro Xaa Xaa Phe Xaa Arg Pro Gly Ala Arg
                165
                                    170
                                                        175 .
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Gly Xaa His Tyr Ala Arg Asn Leu Leu Trp Phe Asp Phe Gly Leu Pro 180 185 190

Phe Pro Pro Glu Lys Arg Ala Lys Arg Gly Asn Ile His Pro Pro Arg 195 200 205

Asp Pro Asn Pro Pro Gln Leu Gln Val Leu Pro Ser Gly Ala Gly Pro 210 215 220

Arg Ala Gln Thr Leu Asn Pro Asn Ala Leu Ile His Pro Val Ser Thr 225 230 235 240

Val Thr Asp His Arg Ser Gln Ile Ser Ser Pro Ala Ser Phe Asp Leu 245 250 255

Gly Ser Ser Ser Phe Ile Gln Trp Gly Leu Ala Trp Leu Asp Ser Val . 260 265 270

Phe Asp Leu Val Met Val Ala Glu Tyr Phe Asp Glu Ser Leu Val Leu 275 280 285

Leu Ala Asp Ala Leu Cys Trp Gly Leu Asp Asp Val Val Gly Phe Met 290 295 300

His Asn Ala Gln Ala Gly His Lys Gln Gly Leu Ser Thr Val Ser Asn 305 310 315

Ser Gly Leu Thr Ala Glu Asp Arg Gln Leu Thr Ala Arg Ala Arg Ala 325 330 335

Trp Asn Asn Leu Asp Trp Ala Leu Tyr Val His Phe Asn Arg Ser Leu 340 345 350

Trp Ala Arg Ile Glu Lys Tyr Gly Gln Gly Arg Leu Gln Thr Ala Val 355 360 365

Ala Glu Leu Arg Ala Arg Glu Ala Leu Ala Lys His Cys Leu Val 370 . 375 380

Gly Gly Glu Ala Ser Asp Pro Lys Tyr Ile Thr Asp Arg Arg Phe Arg 385 390 395 400

Pro Phe Gln Phe Gly Ser Ala Lys Val Leu Gly Tyr Ile Leu Arg Ser 405 415

Gly Leu Ser Pro Gln Asp Gln Glu Glu Cys Glu Arg Leu Ala Thr Pro 420 425 430

Glu Leu Gln Tyr Lys Asp Lys Leu Asp Xaa Lys Gln Phe Pro Pro Thr 435 440 445

Val Ser Leu Pro Leu Lys Thr Ser Arg Pro Leu Ser Pro 450 455 460

<210> 1875

<211> 191

<212> PRT

<213> Homo sapiens

<400> 1875 Met Gly Pro Leu Ser Pro Ala Arg Thr Leu Arg Leu Trp Gly Pro Arg Ser Leu Gly Val Ala Leu Gly Val Phe Met Thr Ile Gly Phe Ala Leu Gln Leu Leu Gly Gly Pro Phe Gln Arg Arg Leu Pro Gly Leu Gln Leu Arg Gln Pro Ser Ala Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys Pro Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser Ser Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu Arg 85 90 Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe Gln 105 Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln Leu 125 Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu Val 135 Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg Asp 155 . 160 Pro Ala Gly Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr Ser Ser Thr Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn 185 ·

<210> 1876 <211> 83 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1876

Met Ala Pro Ala Ile Val Thr Leu Gly Leu Leu Pro Leu Ala Pro 1 5 10 15

Ala Asp Leu Cys Leu Pro Ala Leu Gly Ser Ser Arg Leu Pro Arg Gly 20 25 30

Pro Pro Gln Leu Pro Ser Ile Pro Val Ser Gln Pro Leu Pro Arg Gly 35 40 45

Phe Leu Arg Glu His Pro Gln Pro His Lys Leu Gln Pro Ile Pro Pro 50 55 60

Xaa Ser Gln Lys Ala Leu Phe Leu Glu Pro Arg Arg Leu Trp Pro 65 70 75 80

Pro Ser Pro

<210> 1877

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1877

Met Ser Ile Pro Met Val Ser Val Leu Leu Cys Gln Ala Pro Leu Leu 1 5 10 15

Ile Gln Val Ala Leu Pro Arg Thr Val Ala Ile Arg Lys Lys Arg Leu 20 . 25 30

Cys Leu Val Asp Ser Ile Leu Gln Thr Trp His Leu Phe Asn Phe Phe 35 40 45

Leu Val Gly Phe Ile Phe Gln Ser Ile Phe Arg Phe Thr Ala Lys Leu 50 55 60

Ser Glu Ser Thr Glu Ile Ser His Leu Phe Phe Ala Pro Thr Gln Ala 65 70 75 80

Lys Pro His Leu Leu Pro Ile Ser Pro Thr Arg Glu Val His Leu Leu 85 90 95

<210> 1878

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1878

Met Ser Phe Arg Ser Glu Leu Ala Met Trp Phe Gln Ala Ala Leu Val 1 5 10

Ser Ser Leu Val Leu Pro Thr Pro Pro Gly Ser Gly Gly Thr Ser Arg 20 25 30

Arg Lys Lys Trp Ile Lys Ser Trp Arg Asp Phe Lys Gln Tyr Leu Thr 35 40 45

His Ser Ser Arg His Asp Ser His Gln Leu Arg Ser Ser Asn Ala Phe 50 60

Leu Phe Asp Ala Gln Glu Gly Pro Ser Ala Val Asp Ile Ala Lys Asp 65 70 75 . 80

Glu Ile Gln Arg Gln Arg 85

<210> 1879

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222>. (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1879

Met Leu Gln Thr Thr Leu Pro Ser Ser Gln Thr Val Ser Leu Cys Leu
1 5 10 15

Trp Val Gly Ala Ser Gln Pro Pro Pro Ser Phe Leu Cys Cys Gln Leu 20 25 30

Gln Val Phe Leu Cys Leu Leu His Thr Thr Arg Arg Cys Pro Ser Ala 35 40 45

Leu Pro Ala Leu Val Arg Val Val Pro Val Ser His Cys Gln Thr Ser 50 55 60

Trp Leu Xaa Cys Gly Asp Leu Phe Leu Cys Leu Arg Ser Phe Leu Arg 65 70 75 80

Ser Val His Ser Ser Gly Val Ser Pro Cys Leu Glu Gln Ile Ala Ser 85 90 95

Pro Phe Ser Thr Cys Leu Leu Lys Leu Trp Ser Thr Cys Asp Cys Lys 100 105 110

Phe Ser Ala Ala Thr Pro Glu Pro Ser Ser Ser His Ser Phe Thr Phe 115 120 125

Met Asp 130

<210> 1880

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1880

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile 1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr 20 25. 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly
35 40

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His 50 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu 65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu 85 90 95

<210> 1881

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1881

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile 1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr 20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly
35 40 45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His 50 . 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu 65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu 85 90 95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe 100 105 110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe 115 120

<210> 1882

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1882

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile 1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr 20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly

35 40 - 45`

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His 50 55 60 .

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu 65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu 85 90 95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe 100 105 110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe 115 120

<210> 1883 ,

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1883

Met Pro Arg Ser Ser Trp Arg Pro Ala Pro Ser Arg Pro Trp Met Pro 1 5 10 15

Trp Ser Cys Ala Ser Ser Trp Ser Thr Ser Gly Leu Trp Thr Leu Leu 20 25 30

Cys Thr Arg Ala Ala Cys Thr Ser Ser Gln Arg Pro Thr Thr Cys
35 40 45

Trp Asp Gln Pro Arg Arg Leu Thr Leu Leu Cys Ser Gly Ala Cys Ser 50 60

Arg 65

<210> 1884

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1884

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Arg Leu Xaa Pro Gly
1 5 10 15

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Gly Gly Gly Trp Ser Glu Arg Arg Ser Cys His Xaa Thr Pro Ala Trp
                                25
Val Thr Glu Arg Gln Thr Val Ser Lys Lys Lys Lys Lys Lys Asn
                             40
Val Arg Lys Glu Val Glu Ser Tyr Phe His Leu Tyr Phe Ser His Cys
                       55
                                             60
Leu Ala
<210> 1885
                                  ; . . .
<211> 242
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (198)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (233)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids.
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<400> 1885

Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp Leu Leu Cys 1 5 10 15

Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu Glu Glu Leu Arg 20 25 30 .

Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg Lys Glu Arg Trp Ala 35 40 45

Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser Val Pro Arg Asp Ala Pro 50 55 . 60

Phe Gln Leu Glu Thr Cys Pro Leu Thr Thr Val Asp Ala Leu Val Leu 65 70 75 80

Arg Phe Phe Leu Glu Tyr Gln Trp Phe Val Asp Phe Ala Val Tyr Ser . $85 \hspace{1cm} 90 \hspace{1cm} 95$

Gly Gly Val Tyr Leu Phe Thr Glu Ala Tyr Tyr Tyr Met Leu Gly Pro 100 · 105 110

Ala Lys Glu Thr Asn Ile Ala Val Phe Trp Cys Leu Leu Thr Val Thr 115 120 125

Phe Ser Ile Lys Met Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser Ala 130 135 140

Glu Glu Gly Gly Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu Phe 145 150 155 160

Leu Leu Leu Ala Met Leu Val Gln Val Val Arg Xaa Glu Thr Leu Glu 165 170 175

Leu Gly Leu Asp Leu Ala Gly Ser Met Thr Gln Asn Leu Glu Pro Leu 180 185 190

Leu Lys Lys Gln Xaa Xaa Asp Trp Ala Leu Pro Val Xaa Lys Leu Leu 195 200 205

Ser Arg Asp Cys Met Xaa Leu Gly Trp Cys Phe Tyr Phe Ser Trp Val 210 215 220

Ala Thr Arg Xaa Cys Ile Glu Lys Xaa Tyr Leu Xaa Lys Ser Val Cys 225 230 235 240

Thr Gly

<210> 1886

<211> 479

<212> PRT

<213> Homo sapiens

<400> 1886

Met Ala Val Léu Gly Val Gln Leu Val Val Thr Leu Leu Thr Ala Thr 1 5 10 15

Leu Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp Leu Leu Cys Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu Glu Glu Leu Arg Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg Lys Glu Arg Trp Ala Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser Val Pro Arg Asp Ala Pro Phe Gln Leu Glu Thr Cys Pro Leu Thr Thr Val Asp Ala Leu Val Leu Arg Phe Phe Leu Glu Tyr Gln Trp Phe Val Asp Phe Ala Val Tyr 105. 110 Ser Gly Gly Val Tyr Leu Phe Thr Glu Ala Tyr Tyr Tyr Met Leu Gly Pro Ala Lys Glu Thr Asn Ile Ala Val Phe Trp Cys Leu Leu Thr Val 135 Thr Phe Ser Ile Lys Met Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser 155 Ala Glu Glu Gly Gly Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu Phe Leu Leu Ala Met Leu Val Gln Val Val Arg Glu Glu Thr Leu 185 Glu Leu Gly Leu Glu Pro Gly Leu Ala Ser Met Thr Gln Asn Leu Glu Pro Leu Leu Lys Lys Gln Gly Trp Asp Trp Ala Leu Pro Val Ala Lys 215 Leu Ala Ile Arg Val Gly Leu Ala Val Val Gly Ser Val Leu Gly Ala 230 Phe Leu Thr Phe Pro Gly Leu Arg Leu Ala Gln Thr His Arg Asp Ala Leu Thr Met Ser Glu Asp Arg Pro Met Leu Gln Phe Leu Leu His Thr 260 265 Ser Phe Leu Ser Pro Leu Phe Ile Leu Trp Leu Trp Thr Lys Pro Ile 280 Ala Arg Asp Phe Leu His Gln Pro Pro Phe Gly Glu Thr Arg Phe Ser Leu Leu Ser Asp Ser Ala Phe Asp Ser Gly Arg Leu Trp Leu Leu Val 310 315 Val Leu Cys Leu Leu Arg Leu Ala Val Thr Arg Pro His Leu Gln Ala 335 . . 330

Tyr Leu Cys Leu Ala Lys Ala Arg Val Glu Gln Leu Arg Arg Glu Ala 340 345 350

Gly Arg Ile Glu Ala Arg Glu Ile Gln Gln Arg Val Val Arg Val Tyr 355 360 · 365

Cys Tyr Val Thr Val Val Ser Leu Gln Tyr Leu Thr Pro Leu Ile Leu 370 . 375 380

Thr Leu Asn Cys Thr Leu Leu Leu Lys Thr Leu Gly Gly Tyr Ser Trp 385 390 395 400

Gly Leu Gly Pro Ala Pro Leu Leu Ser Pro Asp Pro Ser Ser Ala Ser 405 410 415

Ala Ala Pro Ile Gly Ser Gly Glu Asp Glu Val Gln Gln Thr Ala Ala 420 425 430

Arg Ile Ala Gly Ala Leu Gly Gly Leu Leu Thr Pro Leu Phe Leu Arg
435 440 445

Gly Val Leu Ala Tyr Leu Ile Trp Trp Thr Ala Ala Cys Gln Leu Leu 450 455 460

Ala Ser Leu Phe Gly Leu Tyr Phe His Gln His Leu Ala Gly Ser 470 475

<210> 1887

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1887

Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu

1 5 10 15

Met Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro
20 25 30

Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr 35 40 45

Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu 50 60

Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His 65 70 75 80

Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro 85 90 95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg
100 105 110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys 115 120

<210> 1888

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1888

Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
1 5 10 15

Met Gly Gl
y Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro 20 . . . 25 30

Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr 35 40 45

Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu 50 55 60

Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His 65 70 75 80

Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro 85 90 95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg
100 105 110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys 115 120

<210> 1889

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1889

Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser 1 5 10 15

Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro 20 25 30

Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu

Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp 50 55 60

Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr 65 70 75 80

Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala

<210> 1890

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1890

Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser 1 5 10 . 15

Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro 20 25 30

Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu 35 40 45

Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp
50 55 60

Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr
65 70 75 80

Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala
. 85 90

<210> 1891

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1891

Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys 1 5 10 15

Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn 20 25 30

Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser 35 40 45

Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Glu Thr . 50 55

Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser 65 70 75 80

Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Xaa 85 90 95

Pro Thr Glu

<210> 1892

<211> 100

<212> PRT

<213> Homo sapiens

<400> 1892

Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys
1 5 10 15

Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn 20 25 30

Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser 35 40 45

Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Glu Thr 50 55 60

Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser 65 70 75 80

Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser 85 90 95

Leu Pro Ser Ser. 100

<210> 1893

<211> 167

<212> PRT

<213> Homo sapiens

<220> .

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1893

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe 1 5 10 15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe 20 25 30

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala 35 40 45

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val 50 55 60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro 65 70 75 80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp 85 90 95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu 100 105 110

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu . 115 120 125

Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser 130 140

Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu 145 150 155 . 160

Pro Glu Gly Pro Ala Val Pro 165

<210> 1894

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1894

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe 1 5 10 15

Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe 20 25 30

Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala 35 40

Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val 50 60

Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Pro 65 70 75 80

Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp 85 90 95

Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu 100 105 110

Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu 115 120 125

Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser 130 135 140

Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu 145 150 155 160

Pro Glu Gly Pro Ala Val Pro 165

<210> 1895

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1895

Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp 1 5 10 15

Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe 20 25 30

Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val 35 40 45

Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val 50 55 60

Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly 65 70 75 80

Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val 85 90

<210> 1896

<211> 41

<212>. PRT

<213> Homo sapiens

<400> 1896

Ala Arg Ala Leu Gly Leu Phe Val Ser Met Phe Ser Leu Thr Asn Pro 1 5 10 15

Ser Pro Val Leu Ser Ala Leu Leu Gly Tyr Thr Gln Leu Asn Asn Leu 20 25 30

Val His Phe Leu Val Trp Glu Pro Leu 35 . 40

<210> 1897

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1897

Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp
1 5 10 15

Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe 20 25 30

Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val 35 40

Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val 50 55 60

Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly 65 70 75 80

Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val 85 90

<210> 1898

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1898

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val 1 5 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys
20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp 35 40

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val 50 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg Xaa Pro Pro Pro Ser Arg Val Ser

Val Trp Leu Phe Val Cys Leu Pro Thr Arg Leu Pro Val Pro Xaa Ala 100 105 110

Leu Pro Leu Xaa Pro 115

<210> 1899

<211> 38

<212> PRT

<213> Homo sapiens

<400> 1899

Ile Ser His Val Leu Ile Asp Ala Tyr Ile Ser Leu Lys Arg Ile Lys

1 10 15

Ser Ser Cys Asn Pro Thr Thr Leu Gly Met Cys Ser Glu Asp Leu Leu 20 25 30

Arg Leu Cys His Trp Ser 35

<210> 1900

<211> 88

<212> PRT . ·

<213> Homo sapiens

<400> 1900

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val
1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp
35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg 85

<210> 1901

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1901

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val

1 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys 20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp 35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val 50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Prò Thr Ser 65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg

<210> 1902

<211> 113

<212> PRT

<213> Homo sapiens

· <220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1902

Met Asn Ser Ala Phe Ser Thr Cys Leu Leu Leu Leu Gln Asp Leu Gly 1 5 10 15

Val Pro Leu Thr Leu Thr Gly Leu Pro Pro Ala Leu Gly Leu Ala Pro
20 25 30

Pro Val Leu Glu Pro Arg Ala Pro Gly Leu Glu Leu Pro Leu Trp Gly 35 40 45

Gly Ser Gln Ala Pro Pro Leu Pro Xaa Leu Ser Ser Val Pro Cys Ser 50 55 60

Ala Pro Pro Leu Tyr Leu Ser Val Xaa Arg Pro Leu Thr Glu Arg Arg 65 70 75 80

Cys Arg Val Ser Arg Gly Pro Arg Trp Ser Gln Gly Gln Gly Trp Asp 85 90 95

Leu Gln Gly Thr Arg Gly Ala His Gly Leu Arg His Leu Cys Pro Gly 100 105 110

Ser

<210> ·1903

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1903

Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro 1 5 10 15

Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser 20 25 30

Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro

35 40 45

Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val 50 55 60

Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn 65 70 75 80

Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys . 85 90 95

Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile 100 105 110

Thr Met Pro Thr Gln 115

<210> 1904

<211> 117

<212> PRT

<213> Homo sapiens

<400> 1904

Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro 1 5 10 15

Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser 20 25 30

Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro
35 40

Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val 50 55 60

Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn 65 70 75 80

Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys 85 90 95

Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile 100 105 110

Thr Met Pro Thr Gln 115

<210> 1905

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1905 Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile , 25 His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met 40 Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Tyr Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser 105 Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln 115 120 <210> 1906 <211> 165 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (145) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (147) <223> Xaa equals any of the naturally occurring L-amino acids ٠. <220> <221> SITE <222> (148) · <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (152) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1906 Met Ala Val Tyr Leu Leu Trp Gln Glu Leu Gly Pro Ala Val Leu Ala 5

30

Gly Val Ala Val Leu Val Phe Val Ile Pro Ile Asn Ala Leu Ala Ala 25

Thr Lys Ile Lys Lys Leu Lys Val Ser Leu Ala Thr Leu Cys Val Tyr
. 35
40

Phe Leu Leu Asp Glù Gly Asn Ile Leu Thr Ala Thr Lys Val Phe Thr 50 55 60

Ser Met Ser Leu Phe Asn Ile Leu Arg Ile Pro Leu Phe Glu Leu Pro 65 70 . 75 80

Thr Val Ile Ser Ala Val Val Gln Thr Lys Ile Ser Leu Gly Arg Leu 85 90 95

Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu Pro Gln Ser Ile Glu Thr 100 105 110

Asn Tyr Thr Gly Asp His Ala Ile Gly Phe Thr Asp Ala Ser Phe Ser 115 120 125

Trp Asp Lys Thr Gly Met Pro Val Leu Lys Glu Ala Leu Trp Leu Met 130 135 140

Xaa Leu Xaa Xaa Pro Gly Phe Xaa Ile Ala Phe Cys Lys Lys Thr Phe 145 150 155 160

Ser Leu Ala Pro Ser 165

<210> 1907

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1907

Cys Tyr Arg Cys Ile Phe Ser Ile Val Ser Asn Arg Phe Ile Phe Ser 1 5 10 15

Asn Pro Trp Ile Ser Ser Cys Ile Phe Thr Ile Ser Lys Gln Ser Asp 20 25 30

Ser Ile Ala Lys Arg Gln Lys Cys Glu Phe Phe Phe Lys Leu Val Asn 35 40 45

Thr Cys 50

<210>,1908

<211> ·84

<212> PRT

<213> Homo sapiens

· <400> 1908

Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala 1 5 10 15

Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr 20 25 30

Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu 35 40 45

Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile 50 55 60

Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr 65 70 75 80

Lys Val Cys Ile

<210> 1909

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1909

Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala 1 5 . 10 . 15

Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr 20 25 30

Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile 50 55 60

Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr 65 70 75 80

Lys Val Cys Ile

<210> 1910

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1910

Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile
1 5 10 15

Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr . 20 25 30

- Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser 35 40 45
- Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser
 50 55 60
- Phe Leu Ile Ser Val Val Xaa Ile Pro Arg Ile Ile Val Met Tyr Met 65 70 75 80
- Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu 85 90 95
- Phe Arg Cys Cys Tyr Cys Cys Phe Trp Cys Leu Asp Lys Tyr Leu Leu 100 105 110
- His Leu Asn Gln Asn Ala Tyr Thr Thr Thr Ala Ile Asn Gly Thr Asp 115 120 . 125
- Phe Cys Thr Ser Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser 130 135 . 140
- Ser His Phe Thr Ser Ile Asn Cys Xaa Gly Asp Phe Ile Ile Phe Leu 145 150 155 160
- Gly Lys Val Leu Val Val Cys Phe Thr Val Phe Gly Gly Leu Met Ala 165 170 175
- Phe Asn Tyr Asn Arg Ala Phe Gln Val Trp Ala Val Pro Leu Leu Leu 180 185 190
- Val Ala Phe Phe Ala Tyr Leu Val Ala His Ser Phe Leu Ser Val Phe 195 200 205
- Glu Thr Val Leu Asp Ala Leu Phe Leu Cys Phe Ala Val Asp Leu Glu 210 215 220
- Thr Asn Asp Gly Ser Ser Glu Lys Pro Tyr Phe Met Asp Gln Glu Phe 225 230 235 240
- Leu Ser Phe Val Lys Arg Ser Asn Lys Leu Asn Asn Ala Arg Ala Gln
 245 250 255
- Gln Asp Lys His Ser Leu Arg Asn Glu Glu Gly Thr Glu Leu Gln Ala 260 265 270

Ile Val Arg

<210> 1911

<211> 275

<212> PRT

<213> Homo sapiens

<400> 1911

Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile

10 15 Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr 25 Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser Phe Leu Ile Ser Val Val Arg Ile Pro Arg Ile Ile Val Met Tyr Met Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu Phe Arg Cys Cys Tyr Cys Cys Phe Trp Cys Leu Asp Lys Tyr Leu Leu His Leu Asn Gln Asn Ala Tyr Thr Thr Thr Ala Ile Asn Gly Thr Asp Phe Cys Thr Ser Ala Lys Asp Ala Phe Lys Ile Leu Ser Lys Asn Ser 130 135 Ser His Phe Thr Ser Ile Asn Cys. Phe Gly Asp Phe Ilé Ile Phe Leu 150 . 155 160. . Gly Lys Val Leu Val Val Cys Phe Thr Val Phe Gly Gly Leu Met Ala Phe Asn Tyr Asn Arg Ala Phe Gln Val Trp Ala Val Pro Leu Leu 185 Val Ala Phe Phe Ala Tyr Leu Val Ala His Ser Phe Leu Ser Val Phe

Glu Thr Val Leu Asp Ala Leu Phe Leu Cys Phe Ala Val Asp Leu Glu 210 215 220

Thr Asn Asp Gly Ser Ser Glu Lys Pro Tyr Phe Met Asp Gln Glu Phe 225 230 235

Leu Ser Phe Val Lys Arg Ser Asn Lys Leu Asn Asn Ala Arg Ala Gln
245 250 255

Gln Asp Lys His Ser Leu Arg Asn Glu Glu Gly Thr Glu Leu Gln Ala 260 265 270

Ile Val Arg

<210> 1912

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1912

Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile 1 5 10 15

Ala Ala Phe Leu Phe Leu Val Val Arg Leu Val Asn Glu Val Asn 20 25 30

Phe Pro Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile 35 40 45

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr 50 $\,$ 55 $\,$ 60 $\,^{\circ}$

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys 65 70 75 80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr
100 105 110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val 115 120 125

Pro Ile Pro Ala Xaa Leu Phe Cys 130 135

<210> 1913

<211> 64

<212> PRT

<213> Homo sapiens .

<400> 1913

Val Phe Thr Ser Ala Lys Tyr Tyr Gly Glu Leu Ser Leu Lys Cys Ala 1 5 10 15

Ile Leu Asp Lys Gly Leu Leu Pro Thr Leu Phe Cys Asn Phe Asp Thr 20 25 30

Ser Ile Phe Thr Pro Ile Asn Ile Thr Lys Pro Gln Phe Tyr Arg Trp 35 40 45

Lys Glu Leu Leu Phe Phe Cys Cys Ser Leu Met Gln Phe Leu Ile Leu 50 55 60

<210> 1914 <211> 305

<212> PRT

<213> Homo sapiens

<400> 1914

Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile 1 5 10 15

Ala Ala Phe Leu Phe Leu Leu Val Val Arg Leu Val Asn Glu Val Asn 20 25 30

Phe Pro Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr 50 55 60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys 65 70 75 80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn 85 90 95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr 100 , 105 110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val 115 120 125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe 130 135 140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn 145 155 160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr 165 170 175

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg 180 185 190

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg 195 200 205

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu 210 215 220

Ala Met Asp Ala Cys Tyr Gly Ile His Val Tyr Gly Met Ile Asn Asp 225 230 235 240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr 245 250 255

Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala 260 265 270

Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys 275 280 285

Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu 290 295 . 300

Ser

<210> 1915

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1915

Met Ala Cys'Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile 1 5 10 15

Ala Ala Phe Leu Phe Leu Val Val Arg Leu Val Asn Glu Val Asn 20 25 30

Phe Pro Leu Leu Asn Cys Phe Gly Gln Pro Gly Thr Lys Trp Ile $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Pro Phe Ser Tyr Thr Tyr Arg Arg Pro Leu Arg Thr His Tyr Gly Tyr 50 55 60

Ile Asn Val Lys Thr Gln Glu Pro Leu Gln Leu Asp Cys Asp Leu Cys 65 70 75 80

Ala Ile Val Ser Asn Ser Gly Gln Met Val Gly Gln Lys Val Gly Asn 85 90 95

Glu Ile Asp Arg Ser Ser Cys Ile Trp Arg Met Asn Asn Ala Pro Thr 100 105 110

Lys Gly Tyr Glu Glu Asp Val Gly Arg Met Thr Met Ile Arg Val Val 115 120 125

Ser His Thr Ser Val Pro Leu Leu Leu Lys Asn Pro Asp Tyr Phe Phe 130 135 140

Lys Glu Ala Asn Thr Thr Ile Tyr Val Ile Trp Gly Pro Phe Arg Asn 145 150 155 160

Met Arg Lys Asp Gly Asn Gly Ile Val Tyr Asn Met Leu Lys Lys Thr 165 170 \cdot 175

Val Gly Ile Tyr Pro Asn Ala Gln Ile Tyr Val Thr Thr Glu Lys Arg 180 185 190 .

Met Ser Tyr Cys Asp Gly Val Phe Lys Lys Glu Thr Gly Lys Asp Arg 195 200 205

Val Gln Ser Gly Ser Tyr Leu Ser Thr Gly Trp Phe Thr Phe Ile Leu 210 215 220

Ala Met Asp Ala Cys Tyr Gly Île His Val Tyr Gly Met Ile Asn Asp 225 230 235 240

Thr Tyr Cys Lys Thr Glu Gly Tyr Arg Lys Val Pro Tyr His Tyr Tyr 245 250 255 .

Glu Gln Gly Arg Asp Glu Cys Asp Glu Tyr Phe Leu His Glu His Ala 265 Pro Tyr Gly Gly His Arg Phe Ile Thr Glu Lys Lys Val Phe Ala Lys Trp Ala Lys Lys His Arg Ile Ile Phe Thr His Pro Asn Trp Thr Leu Ser 305 <210> 1916 <211> 80 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (65) <223> Xaa equals any of the naturally occurring L-amino acids Met Asp Ser Gly Gly Trp Met Asp Gly Asp Thr Arg Gln Ala Phe Pro 10 · 15 Cys Pro Trp Gly Leu Val Ser Leu Pro Leu Ala Gly Val Thr Leu Ala Leu His Val Phe Thr Ala Ser Ala Leu Pro Arg Glu Leu Arg Ser Glu Lys Asp Trp Pro Gly Gln Ser Pro Gly Pro Ile Val Ser Val Pro Gly Xaa Gln Glu Gly Ile Leu Glu Gly Gly Pro Gly Thr Gln Phe Ala Leu <210> 1917 <211> 331 <212> PRT <213> Homo sapiens

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<220>
<221> SITE
<222> (249)
<223> Xaa equals any of the naturally occurring L-amino acids
· <220>
<221> SITE
<222> (257)
<223> Xaa equals any of the naturally occurring L-amino acids.
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<220> <221> SITE <222> (298) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (300) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (301) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1917 Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu 85 Arg Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile 105 Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Cys Val Ala Ser Asn Ile Tyr Gly Thr Val Asn Asn Thr Val Thr Leu Arg Val Ile Phe 135 140 Thr Ser Gly Asp Met Gly Val Tyr Tyr Met Val Val Cys Leu Val Ala Phe Thr Ile Val Met Val Leu Asn Ile Thr Arg Leu Cys Met Met Ser 170 Ser His Leu Lys Lys Thr Glu Lys Ala Ile Asn Glu Phe Phe Arg Thr Glu Gly Ala Glu Lys Leu Gln Lys Ala Phe Glu Ile Ala Lys Arg Ile Pro Ile Ile Thr Ser Ala Lys Thr Leu Glu Leu Ala Lys Val Thr Gln 215 Phe Lys Thr Met Glu Phe Ala Arg Tyr Ile Glu Glu Leu Ala Arg Ser

235

230

Val Pro Leu Pro Pro Leu Ile Met Xaa Cys Arg Thr Ile Met Glu Glu 245 250 255 .

Xaa Met Glu Val Val Gly Leu Glu Glu Gln Gly Gln Asn Phe Val Arg 260 265 270

His Thr Pro Glu Gly Gln Glu Ala Ala Asp Arg Asp Glu Val Tyr Thr 275 280 285

Ile Pro Asn Ser Leu Lys Arg Ser Asp Xaa Pro Xaa Xaa Val Leu Gly 290 295 300

Arg Leu Ile Ala Ala Arg Ala Thr Ser Ala Asn Cys His Gln Gly Val 305 310 315 320

Ser Ser Pro Ala Val Gln Lys Arg Ala Cys Arg 325 330

<210> 1918

<211> 77

<212> PRT -

<213> Homo sapiens

<400> 1918

-Val Gly Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro 1 5 10 15

Gly Gly Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys 20 25 30

Arg Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr
35 40

Ala Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln
50 55 60

Gly Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly 65 70 75

<210> 1919

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1919

Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
1 5 10 . 15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
20 25 30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met 35

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu

50 55 60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro 65 70 75 80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly 85

<210> 1920

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1920

Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly
1 5 10 15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly
20 25 30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met 35 40 45

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu
50 55 60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro
65 70 75 80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly 85 90

<210> 1921

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1921

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu 1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys 20 25 30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp 35 40 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala 65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr 85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser

<210> 1922 '

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1922

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu 1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Cys 20 25 30

Leu Cys Trp Pro Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp 35 40 . 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro
50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala 65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr 85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser 100 105

<210> 1923

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1923

Ser Phe Leu Phe Phe Phe Phe Phe Phe Phe Glu Thr Gly Phe Arg Ser 1 5 10 15

Val Phe Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Xaa Leu Pro Pro 20 25 30

Arg Phe Lys Lys Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr 35 40 45

Arg His Ala Leu Pro His Pro Val Thr Phe Phe Cys Val Phe Leu Val 50 60

Glu Met Ala Phe Ala Met Leu Ala Met Ala Gly Leu Lys Leu Leu Ala 65 70 .75 80

Ser

<210> 1924 <211> 108 <212> PRT . <213> Homo sapiens <400> 1924 Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys Leu Cys Trp Pro Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala Asn Thr Glu Leu Arg Val Leu Leu Pro Ala Arg Val Arg His Tyr Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser <210> 1925 <211> 136 <212> PRT <213> Homo sapiens <220× <221> SITE <222> (59) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (111) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1925 Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn 20 25 30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu
35 40

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Xaa His Val Arg Leu Val

50 55 60

Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln 65 70 75 80

Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His 85 90 95

Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Xaa His 100 105 110

Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln 115 120 125

Lys Thr His Pro Leu Ala Trp Ser 130 135

<210> 1926

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1926

Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu 1 5 10 15

Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn 20 25 30

Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu 35 40 45

Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Leu His Val Arg Leu Val 50 55 60

Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln 65 70 75

Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His 85 . 90 . 95

Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Ser His 100 105 110

Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln
115 120 125

Lys Thr His Pro Leu Ala Trp Ser 130 135

<210> 1927

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1927

Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly Val Ala 1 5 10 15

Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser 20 25 30

Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly 35 40 45

Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser 50 60

Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr 65 70 75 80

Val Leu Ser Ile Leu His

... <210> 1928

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1928

Met Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala 1 5 10 15

Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile 20 25 30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu 50 55 60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser 65 70 75 80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val 85 90 95

Ser Asn Ser

<210> 1929

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1929

Met Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala 1 5 10 15

Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile
20 25 30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu 35 . 40 45

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu 50 55 60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser 65 70 75 80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val 85 90 95

Ser Asn Ser

<210> 1930

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1930

Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala 1 5 10 15

Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe 20 25 30

Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu 35 40

Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His 50 55 60

Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro 65 70 75 80

Arg Val Ser Gly

<210> 1931

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1931

Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met

1 10 15

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly 20 25 30

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn 35 40

Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val 50 60 .

Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu 65 70 75 80

Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala 85 90 95

Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly 100 105 . 110

Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His 115 120 125

Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala 130 135 140

Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu 145 150 155 160

Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly
165 170 175

Ala Ser

<210> 1932

<211> 468

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> I932

Met Asn Ser Gln Asn Ser Gly Phe Thr Gln Arg Arg Met Ala Leu

1 5 10 15

Gly Ile Xaa Ile Leu Leu Leu Val Asp Val Ile Trp Val Ala Ser Ser 20 25 30

Glu Leu Thr Ser Tyr Val Phe Thr Gln Tyr Asn Lys Pro Phe Phe Ser 35 40 45

Thr Phe Ala Lys Thr Ser Met Phe Val Leu Tyr Leu Leu Gly Phe Ile 50 55 . 60

Ile Trp Lys Pro Trp Arg Gln Gln Cys Thr Arg Gly Leu Arg Gly Lys His Ala Ala Phe Phe Ala Asp Ala Glu Gly Tyr Phe Ala Ala Cys Thr Thr Asp Thr Thr Met Asn Ser Ser Leu Ser Glu Pro Leu Tyr Val Pro 105 Val Lys Phe His Asp Leu Pro Ser Glu Lys Pro Glu Xaa Thr Asn Ile Asp Thr Glu Lys Thr Pro Lys Lys Ser Arg Val Arg Phe Ser Asn Ile Met Glu Ile Arg Gln Leu Pro Ser Ser His Ala Leu Glu Ala Lys Leu Ser Arg Met Ser Tyr Pro Val Lys Glu Gln Glu Ser Ile Leu Lys Thr 170 . 175 Val Gly Lys Leu Thr Ala Thr Gln Val Ala Lys Ile Ser Phe Phe Cys Phe Val Trp Phe Leu Ala Asn Leu Ser Tyr Gln Glu Ala Leu Ser 200 Asp Thr Gln Val Ala Ile Val Asn Ile Leu Ser Ser Thr Ser Gly Leu 215 Phe Thr Leu Ile Leu Ala Ala Val Phe Pro Ser Asn Ser Gly Asp Arg 230 Phe Thr Leu Ser Lys Leu Leu Ala Val Ile Leu Ser Ile Gly Gly Val Val Leu Val Asn Leu Ala Gly Ser Glu Lys Pro Ala Gly Arg Asp Thr 265 Val Gly Ser Ile Trp Ser Leu Ala Gly Ala Met Leu Tyr Ala Val Tyr 280 Ile Val Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Trp 310 Pro Gly Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser 360 Ser Leu Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile 375 380

Ile Ala Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe 385 390 395 400

Ala Gly Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu 405 410 415

Cys His Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile 420 425 430

Phe Ala Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp 435 440 445

Ser Glu Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu 450 455 460

Asp Gly Ala Ser

<210> 1933

<211>\ 178

<212> PRT

<213> Homo sapiens

<400> 1933

Met Ile Lys Arg Lys Val Asp Arg Glu Asp Lys Leu Asp Ile Pro Met

1 5 10 15

Phe Phe Gly Phe Val Gly Leu Phe Asn Leu Leu Leu Leu Trp Pro Gly
20 25 30

Phe Phe Leu Leu His Tyr Thr Gly Phe Glu Asp Phe Glu Phe Pro Asn 35 40 45

Lys Val Val Leu Met Cys Ile Ile Ile Asn Gly Leu Ile Gly Thr Val 50 55 60

Leu Ser Glu Phe Leu Trp Leu Trp Gly Cys Phe Leu Thr Ser Ser Leu 65 70 75 80

Ile Gly Thr Leu Ala Leu Ser Leu Thr Ile Pro Leu Ser Ile Ile Ala 85 90 95

Asp Met Cys Met Gln Lys Val Gln Phe Ser Trp Leu Phe Phe Ala Gly 100 105 110

Ala Ile Pro Val Phe Phe Ser Phe Phe Ile Val Thr Leu Leu Cys His 115 120 125

Tyr Asn Asn Trp Asp Pro Val Met Val Gly Ile Arg Arg Ile Phe Ala 130 135 140

Phe Ile Cys Arg Lys His Arg Ile Gln Arg Val Pro Glu Asp Ser Glu 145 150 155 160

Gln Cys Glu Ser Leu Ile Ser Met His Ser Val Ser Gln Glu Asp Gly 165 170 175

Ala Ser

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<210> 1934
 <211> 116
 <212> PRT
 <213> Homo sapiens
. <220>
 <221> SITE '
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1934
 Met Leu Val Ala Trp Cys Leu Ala Pro Gly Asp Leu Leu Leu Val
 Ile Ile Thr Leu Pro Arg Lys Glu Val Thr Gly Ser Met Ser Thr Val
 Cys Gln Cys Glu Ala Gln Pro Ala Met Leu Pro Lys Gly His Phe Thr
                             40 . 45 .
 His His Ser Pro Lys Ala Ala Arg Lys Ala Gln Glu Gly Thr Arg Lys
 Ala Arg Trp Val Ala Leu Glu Asp Ser Ala Pro Phe His Pro Ser Pro
                     70
 Gly Trp Gly Leu Ile Leu Gln Leu His Pro Gln Pro Met Asn Xaa Ser
                                    90
 Gln Ser Ala Trp Lys His Cys Cys Trp Lys Asn Cys Glu Glu Pro Xaa
            100
                               105
 Glu Gly Lys Lys
       115
 <210> 1935
 <211> 74
 <212> PRT
 <213> Homo sapiens
 <220> '
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1935
 Lys Thr Pro His Ser Trp Val Ile His Ala Gly Glu Ala Ser Cys His
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Val Glu Arg Thr Leu Lys Gln Ser Tyr Gly Ala Ala His Met Arg Gly
20 25 30

Thr Glu Ala Pro Ser His Gln Pro Cys Glu Pro Pro Trp Lys Trp Ser 35 40 45

Leu Gln His Gln Ser Ser Phe Gln Met Ile Ala Ala Pro Asn Thr Ile 50 . 60 ·

Leu Thr Ser Ile Xaa Arg Thr Ser Ala Ser 65 70

<210> 1936

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

. <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> · ·

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1936

Met Lys Arg Glu Gly Arg Cys Val Leu His Met His Pro Ser Ser Pro 1 5 10 15

Pro Ser Arg Leu Ser Phe Phe Leu Phe Leu Arg Gln Ser Leu Ala Leu 20 25 30

Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala Gln Arg Asn Leu 35 40 45

Arg Leu Leu Gly Ser Arg Asp Ser Pro Ala Ser Ala Ser Cys Cys Pro 50 . 55 60

Pro Ser Ser Leu Ser Arg Arg Trp Arg Trp Arg Glu Val Pro Glu Gly 65 70 75 80

Leu Trp Gly Leu Xaa Trp Val Xaa Leu Cys Ser Leu Ser Ala Xaa Trp 85 90 95

Thr Ala Leu Lys Gly Ser Ser Pro Pro Phe Xaa Ala Lys Gln Leu Gly 100 105 110

His His Arg Asn Gly Ile Asn Leu Ala Glu Xaa Ser Leu Pro Lys 115 120 125

<210> 1937

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1937

Leu Met Pro Val Ile Pro Ala Ile Trp Glu Thr Glu Ala Gly Gly Leu

1 10 15

Leu Glu Ala Arg Ser Leu Arg Gln Pro Gly Gln His Ser Glu Thr Pro
20 25 30

Ser Leu Gln Glu Thr Phe Lys Asn Lys Asn Ser Ser 35

<210> 1938

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1938

Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Leu 1 5 10 15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val 20 25 30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala 35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg 50 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly 65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser

<210> 1939

<211>- 89

<212> PRT

<213> Homo sapiens

<400> 1939

Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Leu
1 5 10 15

Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val 20 25 30

Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala 35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg 50 55 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly 65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser 85

<210> 1940

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1940

Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp

1 10 15

Pro Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu 20 .25 .30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
35 40 45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys 50 55

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn

70 65 75 Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg 90 Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala 105 Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp · 140 Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Pro Ser Xaa Ala Asp Ala Pro Glu Val Gln Arg Gly Leu Gln Ala Cys Leu Leu Ser Pro Lys Leu Pro Leu Arg Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala Ser Pro Asp Gln Asn Gly Asp Thr Trp Asp Leu Lys Lys Phe Ser Xaa 195 200 Thr Pro Pro Leu Gly Lys Ala Trp Glu Xaa Leu Leu Xaa Gly Thr 215 ... 220 <210> 1941 <211> 169 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (4) <223> Kaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (18) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (24) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (108) <223> Xaa equals any of the naturally occurring L-amino acids

10

Ser Pro Lys Xaa Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val

Leu Xaa Ala Arg Thr Lys Arg Xaa His Leu Val Leu Lys Ser Phe Lys
20 25 30

Asp Thr Pro Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val 35 40 45

Arg Thr Pro Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val 50 55 60

Ser Gly Val Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp 65 70 75 80

Leu Lys Val Ala Thr Ser Leu Leu Leu Leu Phe Ala Ile Phe Met
85 90 95

Gly Leu Arg Ala Ser Lys Cys Arg Ala Ala Leu Xaa Ser Cys Thr Gly
100 105 110

Cys Ser Pro Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp 115 120 125

Thr Gln Leu Val Ser Ala Cys Gln Asn Ala Cys Pro Val Ser Arg Leu 130 135 140

Ser Gln Pro Arg Gly Glu Leu Pro Phe Thr Asp Ser Ser Gln Gly Trp 145 150 155 160

His Arg Pro Gln Glu Cys Arg Leu Val 165

<210> 1942

<211> 327

<212> PRT

<213> Homo sapiens

<400> 1942

Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp 1 5 10 15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu 20 25 30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro 35 40

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys 50 55 60

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn 65 70 75 80

Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg 85 90 95

Leu Ser Asn Glu Glu Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala 100 105 110

Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu

115 120 125

Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp 130 135 140

Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Arg Val Gly Gln 145 155 160

Met Pro Leu Lys Ser Ser Val Gly Ser Arg Arg Val Phe Phe Thr Lys 165 170 175

Leu Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala Ala 180 185 190

Arg Thr Lys Arg Gly His Leu Val Leu Lys Ser Phe Lys Asp Thr Pro 195 200 205

Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val Arg Thr Pro 210 215 220

Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val Ser Gly Val 225 230 235 240

Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp Leu Lys Val 245 250 255

Ala Thr Ser Leu Leu Leu Leu Phe Ala Ile Phe Met Gly Leu Arg 260 265 270

Ala Ser Lys Cys Arg Ala Ala Leu Asn Ser Cys Thr Gly Cys Ser Pro 275 280 . 285

Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp Thr Gln Leu 290 295 300

Val Leu Arg Leu Pro Lys Cys Val Ser Cys Leu Glu Ala Glu Ser Ala 305 310 315

Gln Arg Gly Ala Ala Phe Tyr 325

<210> 1943

<211> 118

<212> PRT

<213> Homo sapiens .

<400> 1943

Met Lys Asp Leu Trp Phe Leu Leu Val Val Ala Ala Pro Thr Trp

1 5 10 15

Val Leu Ser Gln Val Arg Leu Gln Glu Ser Gly Pro Gly Leu Val Ser

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Ile Asn Ile . 35 40 45

Gly Gly Lys Tyr Tyr Trp Ala Trp Val Arg Gln Arg Pro Gly Glu
50 55 60

Gly Pro Glu Trp Val Gly Tyr Ile Ser Tyr Thr Gly Val Ala Asp Tyr 65 70 75 80

Asn Pro Ser Leu Arg Gly Arg Leu Thr Ile Ser Leu Gly Glu Ser Asn 85 90 95

Ser Phe Ser Leu Thr Leu Thr Ser Met Thr Ala Ala Asp Ala Val Val 100 105 110

Tyr Tyr Cys Ala Thr Asp 115

<210> 1944

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1944

Lys Gly Val Phe Tyr Phe Phe Ile Phe Tyr Leu Pro Leu Phe Ser Trp 1 5 10 15

Leu Cys Ser Arg Val Cys Val Phe Ala Cys Leu Leu Ser Cys Ser Phe 20 25 30

Phe Phe Trp Met Lys Thr Pro Ala Phe Pro Asp Ser Pro Pro Ser Ser 35 40 45

Val Leu Gln Phe Ser Glu Lys Ser Trp Asp Met Trp Glu Gly Ala Trp 50 55 60

Glu Leu Gly Ser Leu Arg Leu Pro Gly Arg Gln Phe Arg Leu Cys Arg 65 70 75 80

Lys Glu Gln Ser Pro Trp Glu Ala Leu Gly Glu Gly Gly Ala Ala Gly 85 .90 95

Pro Ala Arg Met Val Leu Pro Ala Thr Gly Gly Leu Arg Val Val Ser 100 105 110

Ala Pro Cys Ile Ser Pro Ser Leu Leu Thr Phe Leu Leu Cys Phe Pro 115 120 125

Pro Ser Val Cys Gln Arg Gly Gly Thr Gly Asn Arg Thr Ala Val Ala 130 135 140

Ala Leu Ser Leu Leu Ser Thr Val Tyr Ser Gly Leu Ser Gly Asp Ser 145 150 155 160

Arg Glu Pro Gly His Leu Ala Ala Val Arg Pro Leu Asn Leu 165 170

<210> 1945

<211> 162

<212> PRT

<213> Homo sapiens

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<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring L-amino acids \cdot
Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile
Leu Phe Val Thr Pro Leu Leu Leu Pro Leu Val Ile Leu Met Pro
Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu
                          . 40
Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys
     50
                                             60
Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg
Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile
                                                         95
Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile
                                105
Leu Gln Xaa Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
   115
Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Xaa Ile
                        135
Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Arg Ala Glu Glu
                    150
Val Val
<210> 1946
<211> 173
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1946

Glu Glu Pro Gln Asp His Thr His Ser Pro Tyr Pro Pro Gln Asp Tyr 1 5 10 15

Arg Thr Phe Trp His Thr Leu Tyr Arg Val Leu Gly Phe Thr Pro Gln 20 25 30

Asn Asp Pro Thr Met Ser Thr His His Gln Asn Pro Ala Asn Gly Pro 35 40 45

Pro Leu Pro Pro Ser Pro Asp Ala Glu Met Xaa Met Gly Ser Trp Arg 50 55 60

Val Gly Ser Glu Met Lys Gly Thr Pro Gln Trp Ala Ala Gly Pro Ile 65 70 75 80

Phe Pro Lys Pro Cys His Tyr Leu Cys Glu Gly Gln Val Ala Glu 85 90 95

Gly Ser Gly Cys Arg Leu Leu Tyr Pro Leu Cys Leu Lys His Pro Pro 100 105 110

His Arg Ala Leu Val Phe Thr Arg Phe Val Leu Asp Ser Leu Asn Gly 115 120 125

Cys Pro Phe Gln Leu Thr Leu Ser Ser Leu Arg Ser Ser Leu Ser Leu 145 150 155

Trp Lys Gly His Pro Ser Gln Gly Arg Asn Ala Trp Ser 165 170

<210> 1947

<211> 407

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE '

<222> (357)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1947

Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile

1 10 15

Leu Phe Val Thr Pro Leu Leu Leu Pro Leu Val Ile Leu Met Pro 20 25 30

Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu 40 Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys 55 Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg Leu Met Leu Gly Phe Met Gly Val. Thr Ala Leu Leu Ser Met Trp Ile Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile Phe Glu Gly Pro Thr Leu Gly Gln Glu Asp Gln Glu Arg Lys Arg 155 . . Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser İle Giy 165 170 Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu Leu Gly 180 . 185 Xaa Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn Phe Ala 200 Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu Leu Phe 215 Ala Trp Leu Trp Leu Gln Phe Val Tyr Met Arg Phe Lys Tyr Val Ser 235 Asp Ala Thr Val Ala Ile Phe Val Ala Thr Leu Leu Phe Ile Val Pro 245 Ser Gln Lys Pro Lys Phe Asn Phe Arg Ser Gln Thr Glu Glu Glu Arg 265 Lys Thr Pro Phe Tyr Pro Pro Pro Leu Leu Asp Trp Lys Val Thr Gln Glu Lys Val Pro Trp Gly Ile Val Leu Leu Cly Gly Gly Phe Ala Leu Ala Lys Gly Ser Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys Gln Met Glu Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile 325 Leu Ser Leu Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala 340 345

Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys Thr Gly 355 360 365

Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn 370 375 380

Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala 385 390 395 400

Asn Val Thr His Ile Glu Thr 405

<210> 1948

<211> 162

<212> PRT

<213> Homo sapiens

<400> 1948

Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile

1 10 15

Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro 20 . 25 30

Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys 50 . 60

Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg 65 70 75 80

Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile 85 90 95

Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile 100 105 110

Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu
115 120 125

Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile 130 135

Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg Lys Arg 145 150 155 160

Leu Cys

<210> 1949

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (327)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1949

Phe Leu Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu 20 25 30

His Lys Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro 35 40 45

Ala Arg Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met 50 55 60

Trp Ile Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu 65 70 75 80

Ala Ile Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly 85 90 95

Leu Glu Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln 100 105 \cdot 110

-Val -Ile Phe Glu Gly Pro-Thr Leu Gly Gln Glu Asp Gln Glu Arg 115 120 125

Lys Arg Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser 130 135 140

Ile Gly Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu 145 150 155 160

Leu Gly Gln Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn 165 170 175

Phe Ala Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu 180 185 190

Leu Phe Ala Trp Leu Trp Leu Gln Phe Val Tyr Met Arg Phe Lys Tyr 195 200 205

Val Ser Asp Ala Thr Val Ala Ile Phe Val Ala Thr Leu Leu Phe Ile 210 215 220

Val Pro Ser Gln Lys Pro Lys Phe Asn Phe Arg Ser Gln Thr Glu Glu 225 230 235 240

Glu Arg Lys Thr Pro Phe Tyr Pro Pro Pro Leu Leu Asp Trp Lys Val 245 250 255

Thr Gln Glu Lys Val Pro Trp Gly Ile Val Leu Leu Gly Gly Gly 260 265 270

Phe Ala Leu Ala Lys Gly Ser Glu Ala Ser Gly Leu Ser Val Trp Met 275 280 285

Gly Lys Gln Met Glu Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr 290 295 300

Leu Ile Leu Ser Leu Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn 305 310 315 320

Val Ala Thr Thr Leu Xaa Leu Pro Ile Phe Ala Ser Met Val Lys 325 330 335

Thr Gly Val Ile Met Asn Ile Ile Gly Val Phe Cys Val Phe Leu Ala 340 345 350

Val Asn Thr Trp Gly Arg Ala Ile Phe Asp Leu Asp His Phe Pro Asp 355 360 365 .

Trp Ala Asn Val Thr His Ile Glu Thr 370 375

<210> 1950

·<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1950

Met Ser Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg
1 · · · 5 10 15

Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser 20 25 30

Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Xaa Asp 50 . 60

Ser Asp Pro His Gly Pro His Thr Cys Xaa His Val Leu Asn Val Ile 65 70 75 80

Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu 85 90 95

Ala Leu Gly Tyr Lys Leu Xaa Cys

100

<210> 1951

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1951

Gln Val Pro Met Ser Trp Thr Pro Thr Ser Cys Ser Cys Gly Leu Gly
1 5 10 15

Asp Gly Ile Gly His Ile Leu Gly Val Gln Arg Arg Pro Thr Arg Ala
20 25 30

Arg Ser Asp Gly Arg Ala Ser Gln Thr Gly Arg Trp Gly Leu Pro Pro 35 40 45

Thr Pro Glu Asp Glu Asp Lys Pro Leu Gly Gln Phe Ser Val Pro Val 50 55 60

Leu Leu Pro Trp Ala Ala Ser Leu Leu Ser Pro Ser Pro Cys Phe Phe 65 70 75 80

Leu

<210> 1952

<211> 295

<212> PRT

<213> Homo sapiens

<400> 1952

Met Ser Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg
1 10 15

Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser 20 25 30

Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu 35 40

Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Ala Asp
50 55 60

Ser Asp Pro His Gly Pro His Thr Cys Gly His Val Leu Asn Val Ile 65 70 75 80

Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu
85 90 95

Ala Leu Gly Tyr Gln Ala Val Val Leu Ser Ala Ala Met Gln Gly Asp 100 105 110

Val Lys Ser Met Ala Gln Phe Tyr Gly Leu Leu Ala His Val Ala Arg 115 120 125 -

Thr Arg Leu Thr Pro Ser Met Ala Gly Ala Ser Val Glu Glu Asp Ala 130 135 140

Gln Leu His Glu Leu Ala Ala Glu Leu Gln Ile Pro Asp Leu Gln Leu 145 150 155 160

Glu Glu Ala Leu Glu Thr Met Ala Trp Gly Arg Gly Pro Val Cys Leu 165 170 175

Leu Ala Gly Gly Glu Pro Thr Val Gln Leu Gln Gly Ser Gly Arg Gly 180 185 190

Gly Arg Asn Gln Glu Leu Ala Leu Arg Val Gly Ala Glu Leu Arg Arg 195 200 205

Trp Pro Leu Gly Pro Ile Asp Val Leu Phe Leu Ser Gly Gly Thr Asp 210 215 220

Gly Gln Asp Gly Pro Thr Glu Ala Ala Gly Ala Trp Val Thr Pro Glu 225 230 235 240

Leu Ala Ser Gln Ala Ala Ala Glu Gly Leu Asp Ile Ala Thr Phe Leu 245 250 255

Ala His Asn Asp Ser His Thr Phe Phe Cys Cys Leu Gln Gly Gly Ala
260 265 270

..His.Leu Leu His Thr Gly Met Thr Gly Thr Asn Val Met Asp Thr His 275 280 285

Leu Leu Phe Leu Arg Pro Arg 290 295

<210> 1953

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1953

Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys

1 10 15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro 20 25 30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly 50 55 60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys 65 70 75 80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp 85 90 95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln

100 105 110

Arg Leu Cys Pro 115

<210> 1954

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1954

Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys

1 10 15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro 20 25 30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu 35 40 45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly 50 55 60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys 65 70 75 80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp 85 90 95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln
100 105 110

Arg Leu Cys Pro 115

<210> 1955

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1955 ·

Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys

1 10 15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro 20 25 30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu 35 40 45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly 50 55 60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys 65 70 75 80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp 85 90

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln 100 105 110

Arg Leu Cys Pro 115

<210> 1956

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1956

Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val 20 25 30

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro
35 40 45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala
50 55 60.

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys 65 70 75 80

Gly Leu

<210> 1957

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1957

Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe 1 5 10 15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val 20 25 30

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro 35 40

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala
50 55 60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys 65 70 75 80

Gly Leu

<210> 1958

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<211> 18
<212> PRT
<213> Homo sapiens
<400> 1958
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
Thr Cys
<210> 1959
<211> 18
<212> PRT
<213> Homo sapiens
<400> 1959
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu
                5
                                   10
Thr Cys
<210> 1960
<211> 43
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1960
Met Ser Met Ala Met Gly Ser Xaa Thr Leu Leu Leu Gly Trp Gly Pro
Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu
                           25
Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr
        35
<210> 1961
<211> 79
<212> PRT
<213> Homo sapiens
<400> 1961
Ala Glu His His Gln Leu Ser Gln Val Leu Val Thr Cys Leu Gly Thr
                                  1269
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1 5 10 15

Cys Met Glu Pro Glu Pro Leu Thr Pro His Pro Arg His Tyr Leu Gly
20 25 30

Asp Ala Gln Asp Lys Cys Ser Asn Asp Cys Met His Cys Leu Ser Ile $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Gln His Glu Leu Pro Ser Tyr Ser Cys Gln Pro Gly Arg Lys Arg
50 55 60

Leu Leu Pro His His Ser Gln Pro Ser Phe Pro Leu Ala Ser Thr 65 70 75

<210> 1962

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1962

Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly Thr Gly
1 5 10

Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe
20 25 30

Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
35 40 45

Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile 50 55 60

Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys 65 70 75 80

Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Glu Lys Gln 85 90 95

Ala Arg Val Leu Ile Val Ile Ala Trp Ser Leu Ser Phe Leu Phe Ser 100 105 110

Ile Pro Thr Leu Ile Ile Phe Gly Lys Arg Thr Leu Ser Asn Gly Glu 115 120 125

Val Gln Cys Trp Ala Leu Trp Pro Asp Asp Ser Tyr Trp Thr Pro Tyr 130 135 140

Ser Ile Met Tyr Gly Ile Val Ile Arg Thr Ile Trp Ile Lys Ser Lys 165 170 175

Thr Tyr Glu Thr Val Ile Ser Asn Cys Ser Asp Gly Lys Leu Cys Ser 180 185 190

Ser Tyr Asn Arg Gly Leu Ile Ser Lys Ala Lys Ile Lys Ala Ile Lys 195 200 205

Tyr Ser Ile Ile Ile Leu Ala Phe Ile Cys Cys Trp Ser Pro Tyr 210 215 220

Phe Leu Phe Asp Ile Leu Asp Asn Phe Asn Leu Leu Pro Asp Thr Gln 225 230 235 240

Glu Arg Phe Tyr Ala Ser Val Ile Ile Gln Asn Leu Pro Ala Leu Asn 245 250 255

Phe Pro Cys Arg Glu Gln Arg Ser Gln Asp Ser Arg Met Thr Phe Arg 275 280 285

Glu Arg Thr Glu Arg His Glu Met Gln Ile Leu Ser Lys Pro Glu Phe 290 295 300

Ile 305

<210> 1963

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1963

Met Ser Met Ala Met Gly Ser Ser Thr Leu Leu Leu Gly Trp Gly Pro

1 5 10 15

Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu 20 25 30

Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr

<210> 1964

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1964

Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu 1 5 10 15

Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly 20 25 30

Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp 35 40 45

Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
50 55 60

- Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys 65 .70 .75 .80
- Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu 85 90 95
- Val Cys Pro Ser Val Arg Leu Xaa Gly Arg Pro Gly Pro Lys Trp Gly
 100 105 110
- Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp 115 120 125
- Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly 130 135 140
- Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr 145 150 155 160

Leu

<210> 1965

<211> 161

<212> PRT

<213> Homo sapiens

<400> 1965

- Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu

 1 5 10 15
- Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly 20 25 30
- Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
 35 40 45
- Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His 50 55
- Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
 65 70 75 ... 80
- Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu 85 90 95
- Val Cys Pro Ser Val Arg Leu Ser Gly Arg Pro Gly Pro Lys Trp Gly
 100 105 110
- Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp 115 120 125
- Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
 130 ' 140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr 145 150 155 160

Leu

<210> 1966

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1966

Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu 1 5 10 15

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His 20 25 30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Xaa Ala Ala Tyr Phe 35 40 45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val 50 55 60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala 65 70 . 75 80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser 85 90

<210> 1967

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1967

Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu 1 5 10

Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His 20 25 30

Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Ser Ala Ala Tyr Phe 35 40 45

Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val 50 55 60

Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala 65 70 75 80

Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser . 85 90

<210> 1968 · <211> 124 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe 25 Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu 50 Gly Gln Ala Phe Arg Arg Val Arg Leu Leu Arg Glu Leu Asn Glu 75 Arg Leu Glu Leu Ala Ser Trp Trp Met Ile Arg Pro Ala Trp Ala Lys Ser Thr Ser Ala Ala Ser Ser Cys Ser Ser Ala Ser Cys Cys Pro Thr 100 105 Phe Pro Trp Trp Pro Arg Ala Pro Arg Gly His Ser <210> 1969 <211> 230 <212> PRT

<210> 1949
<211> 230
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1969

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser 1 5 10 15

Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe 20 . 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala 35 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu 50 55 60

Gly Gln Ala Phe Arg Arg Val Arg Leu Leu Arg Glu Leu Xaa Glu 65 70 75 80

Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu
85 90 95

Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp 100 105 110

Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser 115 120 125

Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg 130 135 140

Ala Arg Gln His Lys Cys Ala Leu Leu Gln Glu Ile Pro Ala Ile 145 150 155 160

Ser Tyr Arg Gly Xaa Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala 165 170 175

Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe 180 185 ·190

Arg His Cys Glu Ile Gln Glu Trp Arg Ser Ser Leu Leu Ala Tyr Gly 210 215 220

Lys Gly Thr Phe Glu Ser 225 230

<210> 1970

<211> 89

<212> PRT

<213> Homo sapiens

<400> 1970

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser 1 5 10 15

Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe

20 . 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala 35. 40 . 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu
50 55 60

Gly Gln Ala Phe Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Arg 65 70 75 80

Ala Pro Gly Ala Cys Leu Pro Gly Gly 85

<210> 1971

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE ...

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1971 ·

Met His Val Lys Trp Xaa Leu Ile Met Phe Leu Ile Cys Ile Ser Leu 1 5 10 15

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr 20 25 30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe 35 40 45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Xaa Phe Val Tyr Ser 50 55 60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser 65 70 75 80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala 85 90 95

Gln Thr Phe

<210> 1972

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1972

Met His Val Lys Trp Tyr Leu Ile Met Phe Leu Ile Cys Ile Ser Leu 1 5 . 10 15

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr 20 25 30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe
35 40 45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Phe Phe Val Tyr Ser 50 55 60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser 65 70 . 75 80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala 85 90 95

Gln Thr Phe

<210> 1973

<211> 153

<212> PRT

<213> Homo sapiens

<400> 1973

Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser 1 5 10 15

Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu 20 25 30

Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn 35 40 45

Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu 50 55 60

Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu 65 70 75 80.

Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met 85 90 95

Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His 100 105 . 110

Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe
115 120 125

Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys 130 135 140

Phe Ile Lys Phe Ala Ala Leu Cys Lys 145 150

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<210> 1974
<211> 153
<212> PRT
<213> Homo sapiens
<400> 1974
Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser
                                .10
Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu
                             25
Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn
Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu
                     55
Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu
Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met
Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His
 Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe
      115 120
Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys
  130 135 140
Phe Ile Lys Phe Ala Ala Leu Cys Lys
145 ..
<210> 1975
<211> 129
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids.

<221> SITE <222> (121)

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<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1975
Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe
Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met
His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn
         35
Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser
Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr
                     70 -
Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Gly Lys Gln Glu Pro
Gln Thr Xaa Ser Ser Pro Lys Pro Thr Xaa Arg Arg Glu Val Ser Arg
       . 100
                                105
Asn Glu Leu Asn Pro Val Ile Pro Xaa Ala Xaa Asn Pro Phe Xaa Lys
                            120
Lys
<210> 1976
<211> 467
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1976
Leu Gly Pro Ala Gly Leu Arg Arg Arg Thr Lys Arg Arg Lys Arg Gly
```

Asp Asn Ser Thr Asp Thr Thr Gln Gly Asp Pro Leu Ser Ile His His

20	25	30

Tyr Phe His Gly Tyr Leu Ala Gly Phe Ser Val Arg Ser Gly Arg Leu 35 40 45

Glu Ser Arg Glu Val Ile Glu Cys Leu Tyr Ala Cys Arg Glu Gly Leu 50 60

Asp Tyr Arg Asp Phe Glu Ser Leu Gly Lys Gly Met Lys Val His Val 65 70 75 80

Asn Pro Ser Gln Ser Leu Leu Thr Leu Glu Gly Asp Asp Val Glu Thr
85 90 95

Phe Asn His Ala Leu Gln His Val Ala Tyr Met Asn Thr Leu Arg Phe 100 105 110

Ala Thr Pro Gly Val Arg Pro Leu Arg Leu Thr Thr Ala Val Lys Cys 115 120 125

Phe Ser Glu Glu Ser Cys Val Ser Ile Pro Glu Val Glu Gly Tyr Val 130 135 140

His Phe Ala Arg Pro Ala Val Asp Phe Glu Gly Thr Asn Gly Val Pro 165 170 175

Leu Phe Pro Asp Leu Gln Ile Thr Cys Ser Ile Ser His Gln Val Glu 180 185 190

Ala Lys Lys Asp Glu Ser Trp Gln Gly Thr Val Thr Asp Thr Arg Met
195 200 205

Ser Asp Glu Ile Val His Asn Leu Asp Gly Cys Glu Ile Ser Leu Val 210 215 220

Gly Asp Asp Leu Asp Pro Glu Arg Glu Ser Leu Leu Leu Asp Thr Thr 225 230 235 240

Ser Leu Gln Gln Arg Gly Leu Glu Leu Thr Asn Thr Ser Ala Tyr Leu 245 250 255

Thr Ile Ala Gly Val Glu Ser Ile Thr Val Tyr Glu Glu Ile Leu Arg 260 265 270

Gln Ala Arg Tyr Arg Leu Arg His Gly Ala Ala Leu Tyr Thr Arg Lys 275 280 285

Phe Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu 290 295 300

Phe Ile Val Glu Val Asn Val Leu His Ser Met Asn Arg Val Ala His 305 310 315 320

Pro Ser His Val Leu Ser Ser Gln Gln Phe Leu His Arg Gly His Gln 325 330 335

Pro Pro Pro Glu Met Ala Gly His Ser Leu Ala Ser Ser His Arg Asn

340 345 350

Ser Met Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly 355 360 365

Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg Ile His Ser Leu 370 375 380

His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly Ala Ser Ser Asp 385 390 395 400

Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala Leu Thr Ile Ile 405 410 415

Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser Cys Val Thr Gly
420 425 430

Ala Val Gly Gln Gln Glu Asp Glu Asp Ser Ser Asp Ser Glu Val 435 440 445

Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile Glu Thr Pro Pro 450 455 460

His Arg Tyr 465

<210> 1977

<211> 231

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1977

Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe 1 . 5 10 15

Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met 20 25 30

His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn 35 40 45

Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser 50 55 60

Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr 65 70 75 80

Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Xaa Lys Gln Glu Pro 85 90 95

Gln Thr Ser Ser Ser Pro Lys Pro Thr Arg Arg Arg Glu Val Ser Arg 100 105 110

Xaa Glu Leu Xaa Pro Val Ile Pro Ser Ala Ala Thr Leu Ile Ile Val 115 120 125

Val Cys Val Gly Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg 130 135 140

Ile His Ser Leu His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly 145 150 155 160

Ala Ser Ser Asp Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala 165 170 175

Leu Thr Ile Ile Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser 180 185 190

Cys Val Thr Gly Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser 195 200 . 205

Asp Ser Glu Val Ala Asp Ser Pro Ser Ser Asp Glu Arg Ile Ile 210 215 220

Glu Thr Pro Pro His Arg Tyr 225 230

<210> 1978

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1978

Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp Asn 1 5 10 15

Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile
20 25 30

Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg
35 40 45

Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr 50 55 60

Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu 65 70 75 80

Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser 85 90 95

. .

His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu 100 105 110

Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro 115 120 125

Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val 130 135 140

Cys 145

<210> 1979

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1979

Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly
1 5 10 15

Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly Leu Met Gln 20 25 30

Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr Phe Cys Ile Ile 35 4'0 45

Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu Leu Ser Arg Tyr 50 55 60

Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser His Gly Tyr Gly 65 70 75 80

Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu Thr Leu Ile Ser 85 90 95

Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro Val Pro Arg Thr 100 105 110

Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val Cys 115 120 125

<210> 1980

<211> 146

<212> PRT

<213> Homo sapiens

<400> 1980

Val Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp

1 10 15

Asn Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala 20 25 30

Ile Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp 35 40 45

Arg Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly 50 60

Thr Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe 65 70 75 80

Glu Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile 85 90

Ser His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly
100 105 110

Leu Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln
115 120 125

Pro Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr 130 135 140

Val Cys 145

<210> 1981

<211> 109.

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1981

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln
1 5 10 15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser 20 25 30

Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met $35 \hspace{1cm} 40 \hspace{1cm} 45 \, ,$

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn 50 55 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile 65 70 75. 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu 85 . 90 95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro 100 105

<210> 1982

<211> 109

<212> PRT

<213> Homo sapiens

<40.0> 1982

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln 1 5 10

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser 20 25 30

Ser Val Arg Arg Ile Asn Tyr Val Phe Leu Ile Tyr Lys Lys Gly Met 35 40 45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn 50 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile 65 70 75 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu
85 90 95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro 100 105

<210> 1983

<211> 109

<212> PRT ·

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1983

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Cys His Cys Gln
1 5 10 15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser 20 25 30

Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met 35 40 45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn 50 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile
65 70 75 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu 85 90 95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro \cdot 100 105

```
<210> 1984
  <211> 108
  <212> PRT
  <213> Homo sapiens
  <220>
  <221> SITE
  <222> (29)
  <223> Xaa equals any of the naturally occurring L-amino acids
  <220>
  <221> SITE
  <222> (37)
  <223> Xaa equals any of the naturally occurring L-amino acids
<220>
  <221> SITE
  <222> (99)
  <223> Xaa equals any of the naturally occurring L-amino acids
  <400> 1984
  Gly Ala Cys Arg Gly Ser Ser Glu Pro Gly Ala Thr Pro Arg Pro Asp
  Gly Glu Pro Arg Pro Leu Pro Gly Leu His Cys Ala Xaa Gly Met Pro
              20
                                  25
  Thr Pro Leu Pro Xaa Ser Pro Leu Gly Leu Arg Ser Leu Arg Arg Val
                             40
  Gly Trp Pro Val Arg Lys Gly Arg Val Gly Arg Ala Trp Gly Trp Ala
                         55
  Gly Leu Cys Glu Glu Leu Gln Pro Gln Ala Pro Pro Cys His Glu Ser
 Lys Arg Gly Arg Gly Ala Val Ala His Asp Cys Asn Pro Ser Thr Leu
 Gly Gly Xaa Ser Gly Gln Ile Thr Arg Ser Gly Val
             100
  <210> 1985
  <211> 130
  <212> PRT
 <213> Homo sapiens
 <220>
  <221> SITE
  <222> (37)
  <223> Xaa equals any of the naturally occurring L-amino acids
  <400> 1985
 Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe .
```

Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His

20 25 30

His Leu Leu Ala Kaa Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val 35 40 45

Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val 50 55 60

Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys 65 70 75 80

Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro Ser Pro Trp 85 90 95

Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu Thr Asp Ile 100 \$105\$

Asn Glu Ala Tyr Val Glu Thr Leu Lys Val Gly Pro Ala Val Arg Arg 115 120 125

Leu Pro 130

<210> 1986

<211> 16

<212> PRT

<213> Homo sapiens

<400> 1986

Pro Ala Ser Gln Lys Ala Val Ser Ala Trp Arg Cys Pro Ala His Val 1 5 10

<210> 1987

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1987

Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe 1 5 10 15

Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His
20 25 30

His Leu Leu Ala Cys Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val
35 40 45

Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val 50 55 60

Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys 65 70 75 80

Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro Ser Pro Trp 85 90

Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu Thr Asp Ile
100 105 110

Asn Glu Ala Tyr Val Glu Thr Leu Lys Val Gly Pro Ala Val Arg Arg 115 120 125

Leu Pro 130

<210> 1988

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

-<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

. <222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1988

Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp

1 10 15

Val Pro Val Leu Val Ile Val Leu Val Val Leu Trp Ser Tyr Tyr Ala 20 25 30

Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys 35 40

Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp 50 55 60

Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys
65 70 75 80

Phe His Leu Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg 85 90 95

Pro Glu Val Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro 100 105 110

Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys 115 120 125

His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met 130 \$135\$

Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile 145 150 155 160

Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa 165 170 175

Leu Tyr Cys Leu Xaa Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys 180 185 190

Tyr Trp Xaa Gly Glu Leu Pro Xaa Val Ala 195 200

<210> 1989

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1989

Lys Pro Asn Gly Lys Asn Ile Ser Phe His Ser Ser Tyr Gln Val Lys 1 5 10

Gly Asn Ser Glu Asn Phe Leu Arg Val Phe Asn Ser Pro Thr Lys Ile 20 25 30

Ile Asn His Ile Tyr Arg Ala Phe Leu Val Leu Lys Gly Ile Lys Leu 35 40 45

His Leu Leu Val Cys Val Cys Ile Cys Glu His Val Gln His Ile
50 55 60

Tyr Thr Lys Phe Cys Tyr Ser Val Lys Ile Arg Ala Lys Asn Leu Lys 65 70 75 80

Pro Leu Phe Asn Tyr Ala Phe Pro Leu Asn Ser Asn Leu Asn Ile Cys 85 90 95

<210> 1990

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids.

<400> 1990

Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp
1 10 15

· Val Pro Val Leu Val Ile Val Leu Val Val Leu Trp Ser Tyr Ala 20 25 30

Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys 35 40 45

Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Thr Trp 50 55 60

Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys 65 . 70 . 75 80

Phe His Leu Ser Tyr Thr Asp Lys Glu Arg Tyr Glu Asn Glu Glu Arg 85 90 95

Pro Glu Val Gln Lys Gln Met Leu Val Asp Met Ala Lys Lys Leu Pro 100 105 110

Val Tyr Thr Arg Thr Gly Ser Gly Ala Val Arg Phe Cys Asp Arg Cys 115 120 125

His Leu Ile Lys Pro Asp Arg Cys His His Cys Ser Val Cys Ala Met 130 . 140 .

Cys Val Leu Lys Met Asp His His Cys Pro Trp Val Asn Asn Cys Ile 145 150 155 160

Gly Phe Ser Asn Tyr Lys Phe Phe Leu Gln Phe Leu Ala Tyr Ser Xaa 165 170 175

Leu Tyr Cys Leu Tyr Ile Ala Thr Thr Val Phe Ser Tyr Phe Ile Lys 180 . 185 190

Tyr Trp Arg Gly Glu Leu Pro Ser Val Arg Ser Lys Phe His Val Leu 195 200 205

Phe Leu Leu Phe Val Ala Cys Met Phe Phe Val Ser Leu Val Ile Leu 210 215 220

Phe Gly Tyr His Cys Trp Leu Val Ser Arg Asn Lys Thr Thr Leu Glu 225 230 235 240

Ala Phe Cys Thr Pro Val Phe Thr Ser Gly Pro Glu Lys Asn Gly Phe 245 250 255

Asn Leu Gly Phe Ile Lys Asn Ile Gln Gln Val Phe Gly Asp Lys Lys 260 270

Lys Phe Trp Leu Ile Pro Ile Gly Ser Ser Pro Gly Asp Gly His Ser 275 280 285

Phe Pro Met Arg Ser Met Asn Glu Ser Gln Asn Pro Leu Leu Ala Asn 290 295 300

Glu Glu Thr Trp Glu Asp Asn Glu Asp Asp Asn Gln Asp Tyr Pro Glu 305 310 315 320

Gly Ser Ser Ser Leu Ala Val Glu Thr Glu Thr 325 330

<210> 1991 <211> 235 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (171) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (205) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (210) <223> Xaa equals any of the naturally occurring L-amino acids ' <220> <221> SITE <222> (221) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1991 . Met Trp Gly Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro 35 . 40 Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val . 55 Arg Ile Arg Val Ile Lys Lys Lys Val Ile Met Lys Lys Arg Lys - 70 75 Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu 90. Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser 120 Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg 130 135 140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp

145 150 155 Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Xaa Pro Trp Phe Gln Val 165 170 Asp Ala Gly His Pro Thr Arg Phe Leu Gly Gly Ile Thr Gln Gly Lys 185 · 180 Glu Leu Leu Ser Gly Gly Glu Gly Arg Leu Thr Leu Xaa Gln Glu Val 200 Gln Xaa Gly Leu Gly Leu Gly Ser Pro Gly Gly Thr Xaa Asp Leu Ser 210 215 , 220 Ser Pro Phe Leu Ala Gly Met Met Gly Ser His 230 <210> 1992 <211> 197 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (169) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (187) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (194) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1992 Met Trp Gly Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly 5 Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro 25 Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val Arg Ile Arg Val Ile Lys Lys Lys Val Ile Met Lys Lys Arg Lys 70 Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser 115 120 125

- Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg 130 135 140
- Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp 145 150 155 160
- Gly Ala Trp Cys Ala Glu Glu Gln Xaa Ala Asp Pro Trp Phe Gln Val 165 170 175
- Asp Ala Gly His Pro Thr Arg Phe Ser Gly Xaa Ile Thr Gln Gly Arg 180 185 190

Asn Xaa Val Trp Arg · 195

<210> 1993

<211> 197

<212> PRT

<213> Homo sapiens

<400> 1993

Met Trp Gly Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly
1 5 10 15

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro
20 25 30

Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro 35 40 . 45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val
50 55 60

Arg Ile Arg Val Ile Lys Lys Lys Val Ile Met Lys Lys Arg Lys 65 70 75 80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu 85 90 95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu 100 105 110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser 115 120 125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg 130 135 140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp 145 150 155 160

Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Asp Pro Trp Phe Gln Val 165 170 175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Val Ile Thr Gln Gly Arg
180 185 190

Asn Ser Val Trp Arg 195

<210> 1994

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221>. SITE

<222> (236)

<223> Kaa equals any of the naturally occurring L-amino acids

<400> 1994

Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala 1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
20 25 30

Gly Tyr Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser 50 60 :

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala 65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp 85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser 100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val 115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile 130 135 140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu 145 150 155 160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu

165 170 175

Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
180 185 190

Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg 195 200 205

Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Gly Tyr Ser Leu 210 215 220

Arg Pro Ala Lys Xaa Xaa Cys His Ser Glu Thr Xaa Trp Val Ser Lys 225 230 235 240

Pro

<210> 1995

<211> 340

<212> PRT

<213> Homo sapiens

<400> 1995

Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala 1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
20 25 30

Gly Tyr Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val 35 40 45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser 50 60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala 65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp 85 90 . 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser 100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val 115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile 130 135 140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu 145 150 155 160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
165 170 175

Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln 180 185 190

Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg
195 200 205

Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr 210 215 220

Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala 225 230 235 240

Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg 245 250 255

Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile 260 265 270

His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro 275 280 285

Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His 290 295 300

Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp 305 310 315 320

Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser 325 330 335

Ile Lys Glu Lys 340

<210> 1996

.<211> 85

<212> PRT

<213> Homo sapiens

<400> 1996

Met Ser Pro Pro Pro Pro Leu Leu Leu Leu Leu Leu Ser Leu Ala 1 5 10 15

Leu Leu Gly Ala Arg Ala Arg Ala Glu Pro Ala Gly Ser Ala Val Pro 20 25 30

Ala Gln Ser Arg Pro Cys Val Asp Cys His Ala Phe Glu Phe Met Gln 35 40

Arg Ala Leu Gln Asp Leu Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg 50 55 60

Thr Glu Thr Leu Leu Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys 65 70 75 80

Trp Pro Ala Gly His

85

<210> 1997

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1997

Met Ala Pro Pro Pro Ala Cys Arg Ser Pro Met Ser Pro Pro Pro Pro 1 5 10 15

Leu Leu Leu Leu Leu Ser Leu Ala Leu Leu Gly Ala Arg Ala 20 25 30

Arg Ala Glu Pro Ala Gly Ser Ala Val Pro Ala Gln Ser Arg Pro Cys 35 40 45

Val Asp Cys His Ala Phe Glu Phe Met Gln Arg Ala Leu Gln Asp Leu 50 55 60

Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg Thr Glu Thr Leu Leu Leu 65 70 75 80

Glm Ala Glu Arg Arg Ala Leu Cys Ala Cys Trp Pro Ala Gly His 85 90 95

<210> 1998

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7,9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1998

Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His 1 5 10 15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val

20 25 . 30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr 35 40 45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala 50 55 60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Xaa Xaa Xaa 65 70 75 80

Gly Val Val Xaa

<210> 1999

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1999

Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val 20 25 30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr 35 40 45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala 50 55 60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Val Leu Lys Lys Lys 65 70 75 80

Lys Lys Lys Lys Lys Lys Lys Lys 100 105

<210> 2000

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7.6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids.

<400> 2000

Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His 1 5 10 15

Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val 20 25 30

Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr 35 40 45

Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala 50 55 60

Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Lys Lys 65 70 75 80

<210> 2001

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids.

<400> 2001

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu 1 5 10 15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe 20 25 30

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu 35 40 45

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Xaa Tyr Ser 50 55 60

Asp Asn Ile Leu Val Ser Pro Ser Leu Tyr Leu 65 70 75

<210> 2002

<211> 75

<212> PRT

<213> Homo sapiens

<400> 2002

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu 1 5 10 . 15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe 20 25 30

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu 35 40 45

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Leu Tyr Ser 50 60

Asp Asn Ile Leu Phe Ser Pro Ser Leu Tyr Leu 65 70 75

<210> 2003

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2003

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
1 5 10 15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu 20 25 30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
35 40 45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser 50 60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu 65 70 75 80

Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu 85 90 95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro 100 105 110

Asn Ala Arg Leu Asp Ser Xaa Gln Leu Pro Gly Pro Pro Gly Phe Ser 115 120 125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr 130 135 140

Lys Leu Thr

14**5**

<210> 2004 <211> 147

<212> PRT

<213> Homo sapiens

<400> 2004

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
1 5 10 15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu 20 25 30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg
35 40 45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser 50 . 55 . 60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu 65 70 . 75 80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu 85 90 95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro 100 105 110

Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser 115 120 125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr 130 135 140

Lys Leu Thr

145 ·

<210> 2005 · .

<211> 147

<212> PRT

<213> Homo sapiens

<400> 2005

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln
1 5 10 15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu 20 . 25 . 30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg .35 40 45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser 50 60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu 65 70 75 80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu 85 90 95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro 105 Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser 120 Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr 135 Lys Leu Thr 145 <210> 2006 <211> 127 <212> PRT <213> Homo sapiens <400> 2006 Gln Gly Tyr Phe Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr 40 Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile 70 75 Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala 85 . 90 Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val 100 . 105 Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu 120 <210> 2007 <211> 221

<212> PRT

<213> Homo sapiens

<220> ·

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> '

<221> SITE

<222> (26)

<223> Kaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (34)

<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2007

Lys Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr
1 5 10 15

Arg Pro Gly Asp Leu Trp Pro Thr Xaa Xaa Val Cys Val Thr Ser Ser 20 25 30

Leu Xaa Cys Thr Leu Glu Asn Gly Val Pro Cys Val Ile Glu Ser 35 40 45

Ala Pro Val His Asn Ser Phe Ile Asp Trp Ser Ala Thr Cys Glu Gly 50 55 60

Gln Phe Ser Ser Ala Tyr Cys Pro Leu Glu Leu Asn Asp Tyr Asn Ala 65 70 75 80

Phe Pro Glu Glu Asn Met Asn Tyr Ala Asn Gly Phe Pro Cys Pro Ala 85 90 95

Asp Val Gln Thr Asp Phe Ile Asp His Asn Ser Gln Ser Thr Trp Asn 100 105 110

Thr Pro Pro Asn Met Pro Ala Ala Trp Gly His Ala Ser Phe Ile Ser 115 120 125

Ser Pro Pro Tyr Leu Thr Ser Thr Arg Ser Leu Ser Pro Met Ser Gly 130 135 140

Leu Phe Gly Ser Ile Trp Ala Pro Gln Ser Asp Val Tyr Glu Asn Cys 145 150 155 160

Cys Pro Ile Asn Pro Thr Thr Glu His Ser Thr His Met Glu Asn Gln
165 170 175

Ala Val Val Cys Lys Glu Tyr Tyr Pro Gly Phe Asn Pro Phe Arg Ala 180 185 190

Tyr Met Asn Leu Asp Ile Trp Thr Thr Thr Ala Asn Arg Asn Ala Asn 195 200 205

Phe Pro Leu Ser Arg Asp Ser Ser Tyr Cys Gly Asn Val 210 215 220

<210> 2008

<211> 166

<212> PRT

<213> Homo sapiens

<400> 2008

Met Ala Gly Leu Arg Arg Pro Gln Pro Gly Cys Tyr Cys Arg Thr Ala 1 5 10 15

Ala Ala Val Asn Leu Leu Gly Val Phe Gln Val Leu Leu Pro Cys Cys Arg Pro Gly Gly Ala Gln Gly Gln Ala Ile Glu Pro Leu Pro Asn Val Val Glu Leu Trp Gln Ala Glu Glu Gly Glu Leu Leu Pro Thr Gln Gly Asp Ser Glu Glu Gly Leu Glu Glu Pro Ser Gln Glu Gln Ser 70 . Phe Ser Asp Lys Leu Phe Ser Gly Lys Gly Leu His Phe Gln Pro Ser Val Leu Asp Phe Gly Ile Gln Phe Leu Gly His Pro Val Ala Lys Ile 105 Leu His Ala Tyr Asn Pro Ser Arg Asp Ser Glu Val Val Val Asn Ser 120 Val Phe Ala Ala Ala Gly His Phe His Val Pro Pro Val Pro Cys Arg Val Ile Pro Ala Met Gly Lys Thr Ser Ser Glu Leu Phe Ser Tyr Leu 150 155 Thr Glu Glu Gly Ser Ile 165 <210> 2009 <211> 19 <212> PRT <213> Homo sapiens <400> 2009 Ile Pro Cys Thr Arg Pro Leu Gly Phe Pro Cys Gly Ser Asn Val Pro 5 . 10 Trp Trp Gly <210> 2010 <211> 511 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (171) <223> Xaa equals any of the naturally occurring L-amino acids <220>

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE, <222> (358)

<220>

<221> SITE

<222> (388)

<223> Xaa equals any of the naturally occurring L-amino acids'

<400> 2010

Met Ala Gly Leu Arg Arg Pro Gln Pro Gly Cys Tyr Cys Arg Thr Ala 1 5 10 15

Ala Ala Val Asn Leu Leu Leu Gly Val Phe Gln Val Leu Leu Pro-Cys 20 25 30

Cys Arg Pro Gly Gly Ala Gln Gly Gln Ala Ile Glu Pro Leu Pro Asn 35 40 45

Val Val Glu Leu Trp Gln Ala Glu Glu Gly Glu Leu Leu Pro Thr 50 55 60

Gln Gly Asp Ser Glu Glu Gly Leu Glu Glu Pro Ser Gln Glu Gln Ser 65 70 75 80

Phe Ser Asp Lys Leu Phe Ser Gly Lys Gly Leu His Phe Gln Pro Ser 85 90 95

Val Leu Asp Phe Gly Ile Gln Phe Leu Gly His Pro Val Ala Lys Ile 100 105 110

Leu His Ala Tyr Asn Pro Ser Arg Asp Ser Glu Val Val Asn Ser 115 120 125

Val Phe Ala Ala Gly His Phe His Val Pro Pro Val Pro Cys Arg 130 135 140

Val Ile Pro Ala Met Gly Lys Thr Ser Phe Arg Ile Ile Phe Leu Pro 145 155 160

Thr Glu Glu Gly Ser Ile Glu Ser Ser Leu Xaa Ile Asn Thr Ser Ser 165 170 175

Tyr Gly Val Leu Ser Tyr His Val Ser Gly Ile Gly Thr Arg Arg Ile 180 185 190

Ser Thr Glu Gly Ser Ala Lys Gln Leu Pro Asn Ala Tyr Phe Leu Leu 195 200 205

Pro Lys Val Gln Ser Ile Gln Leu Ser Gln Met Gln Ala Glu Thr Thr 210 215 220

Asn Thr Ser Leu Leu Gln Val Gln Leu Glu Cys Ser Leu His Asn Lys 225 230 235 240

Val Cys Gln Gln Leu Lys Gly Cys Tyr Leu Glu Ser Asp Asp Val Leu 245 . 250 . 255

Arg Leu Gln Met Ser Ile Met Val Thr Met Glu Asn Phe Ser Lys Glu 260 265 270

Phe Glu Glu Asn Thr Gln His Leu Leu Asp His Leu Ser Ile Val Tyr 275 280 285

Val Ala Thr Asp Glu Ser Glu Thr Ser Asp Asp Ser Ala Val Asn Met 295 Tyr Ile Leu His Ser Gly Asn Ser Leu Ile Trp Ile Gln Asp Ile Arg 310 His Phe Ser Gln Arg Asp Ala Leu Ser Leu Gln Phe Glu Pro Val Leu 330 335 Leu Pro Thr Ser Thr Thr Asn Phe Thr Lys Ile Ala Ser Phe Thr Cys 345 Lys Ala Ala Thr Ser Xaa Asp Ser Gly Ile Ile Glu Asp Val Lys Lys Thr Thr His Thr Pro Thr Leu Lys Ala Cys Leu Phe Ser Ser Val Ala 375 Gln Gly Tyr Kaa Arg Met Asp Ser Ser Ala Thr Gln Phe His Ile Glu 390 395 . Thr His Glu Asn Thr Ser Gly Leu Trp Ser Ile Trp Tyr Arg Asn His Phe Asp Arg Ser Val Val Leu Asn Asp Val Phe Leu Ser Lys Glu Thr 425 Lys His Met Leu Lys Ile Leu Asn Phe Thr Gly Pro Leu Phe Leu Pro 440 Pro Gly Cys Trp Asn Ile Phe Ser Leu Lys Leu Ala Val Lys Asp Ile . 455 Ala Ile Asn Leu Phe Thr Asn Val Phe Leu Thr Thr Asn Ile Gly Ala 465 470 475 Ile Phe Ala Ile Pro Leu Gln Ile Ser His Cys Leu Glu Thr Arg Val Thr Val Gly Met Cys Glu Asn Asn Trp Ile Phe Lys Gln Cys Glu 500 505 .

<210> 2011

<211> 317

<212> PRT

<213> Homo sapiens

<400> 2011

Met Ile Ala Leu Leu Lys Ile Leu Leu Ala Ala Pro Thr Ser Lys

1 10 15

Ala Lys Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu
20 25 30

Met Pro Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn 35 40 45

Arg His Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu 50 55 60

Leu Leu Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met 65 70 75 80

Ala Gln His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe 85 90 95

Phe Asn Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser 100 105 110

Val Leu Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr 115 120 125

Ala Glu Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn 130 135 140

Leu Phe Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys 145 150 155 160

Trp Lys His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro 165 170 175

Ile Leu Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr 180 185 190

Val Leu Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp 195 200 205

Arg Lys Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg 210 215 220

His Arg Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg 225 230 235 .240

Pro Trp Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu.
245 250 250

Arg Phe Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe 260 265 270

Leu Pro Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp 275 280 285

Leu Pro Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu 290 295 300

Val Phe Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln 305 310 315

<210> 2012

<211> 957

<212> PRT

<213> Homo sapiens

<400> 2012

Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala Ser Pro

1				5					10					15	
Cys	Gly	Ala	Trp 20	Ala	Leu	Arg	Asp	Thr 25	Pro	Ile	Pro	Arg	Trp 30	Lys	Leu
Ser	Ser	Ala 35	Glu	Thr	Tyr	Ser	Arg 40	Met	Arg	Leu	Lys	Leu 45	Val	Pro	Asn
His	His 50	Phe	Asp	Pro	His	Leu 55	G1u	Ala	Ser	Ala	Leu 60	Arg	Asp	Asn	Leu
Gly 65	Glu	Val	Pro	Leu	Thr 70	Pro	Thr	Glu	Glu	Ala. 75	Ser	Leu	Pro	Leu	Ala 80
Val	Thr	Lys	Glu	Ala 85	Lys	Val -	Ser	Thr	Pro 90	Pro	Glu	Leu	Leu	Gln 95	Glu
			Gly 100					105					110		
•		115	Leu			•	120					125	•	•	
	130		Val			135			•		140		٠	•	
.145			Asn	•	150					155		-	·		160_
			Gly	165		•	-		170					175	
			His 180					185	·				190		
		195	Ile				200					205			
	210		Thr			215					220				
225			Ile		230	•				235					240
			Arg	245			•	-	250				·	255	
			Glu 260			•		265				•	270		
		275	Ile				280		_		•	285			
	290		Thr			295					300				
305			Asp		310					315				•	320
val	rne	Arg	Asp	ьeu	ser	тĀг	Pro	-	Gly 308	Val	Val	Asn	Pro	Lys	His

				325					330					335	
Ala	Gln	Leu	Val 340	Arg	Glu	Lys	Tyr	Glu 3 4 5	Ser	Phe	Glu	Asp	Pro 350	Ala	Gly
Thr	Ile	Asp 355	Lys	Phe	His	Tyr	Gly 360	Thr	His	Tyr	Ser	Asn 365	Ala	Ala	Gly
Val	Met 370	His	Tyr	Leu	Ile	Arg 375	Val	Glu	Pro	Phe	Thr 380	Ser	Leu	His	Val
Gln 385	Leu	Gln	Ser	Gly	Arg 390	Phe	Asp	Cys	Ser	Asp 395	Arg	Gln	Phe	His	Ser 400
Val	Ala	Ala	Ala	Trp 405	Gln	Ala	Arg	Leu	Glu 410	Ser	Pro	Ala	Asp	Val 415	Lys
Glu	Leu ·	Ile	Pro 420		Phe	Phe	Tyr	Phe 425	Pro	Asp	Phe	Leu	Glu 430	Asn	Gln
Asn	Gly	Phe 435	Asp	Leu	Gly	Cys	Leu 440		Leu	Thr	.Asn	Glu 445	Lys	Val	Gly
Asp	Val 450	Val	Leu	Pro	Pro	Trp 455	Ala	Ser	Ser	Pro	Glu 460	Asp	Phe	Ile	Gln
Gln 465	His	Arg	Gln	Ala	Leu 470	Glu	Ser	Glu	Tyr	Val 475	Ser	Ala	His	Leu	His 480
Glu	Trp	Ile	Asp	Leu 485	Ile	Phe	Gly	Tyr.	Lys 490	Gln	Arg	Gly	Pro	Ala 495	Ala
	Glu	•	500					505					510	•	
	Leu	515					520					525			
	Ile 530					535			٠		540				
545	Pro				550					555					560
,	Asp			565					570					575	•
	Phe		580					585					590		•
	Val	595					600					605			
	Leu 610	٠.				615			•		620				
625	Leu				630					635					640
Asp	Pro	Thr	Met	Gly	Ser	His	Lys	Thr	Gln	Arg	Leu	Leu	Ser	Gly	Pro

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Try Val Pro Gely Ser Gly Ser Gly Val Ser Gly Gly Gln Ala Leu Ala Ala Ala Leu Ala Ala Ala Ala Leu Ala	wo	01/77	137												P	CT/
Asp Gly Lys Leu Leu Phe Ser Gly Gly Lys Leu Ser Gln Leu Gen					645		•			650					655	
Secondary Seco	Trp	Va1	Pro		Ser	Gly	Val	Ser		Gln	Ala	Leu	Ala		Ala	Pro
690 695 700 Leu Asp Val Val Val Thr Cys 710 Leu Ala Leu Asp Thr Cys 715 Cys Gly Ile Tyr 715 Ile Ser Gly Ser Arg 725 Asp Thr Thr Cys Met 730 Trp Arg Leu Leu 735 Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val 755 Ala Ala Val Ser Glu Asp Fro Lys Pro Val Glu Pho 755 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr 765 Ala Val Ser Gly Asp Fro Roll Pho Val Ala Leu Arg Roll Pho	Asp	Gly		Leu	Leu	Phe	Ser		Gly	His	Trp	Asp		Ser	Leu	Arg
710 715 716 715 715 716 715 715 716 715 715 716 715 715 716 715 716 715 715 716 715 716 715 716 715 716 715 716 715 716 715 715 716 715 716 715 716 716 715 716 716 715 716 716 716 716 716 716 716 716 716 716	Val		Ala	Leu	Pro	Arg		Lys	Leu	Leu	Ser		Leu	Ser	Cys	His
Table Tabl		Asp	Val	Val	Thr		Leu	Ala	Leu	Asp			Gly	Ile		Let 720
Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu 765 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Trr Val Ile Ile His 780 Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala 815 Phe Pro Gly Pro Ile 805 Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr 830 Ser Leu His Leu Tyr Ser Val Ash Gly Lys Leu Arg Ala Ser Leu Ala Ser Ser Leu Ala Ser Leu Ala Ser Ser Leu Ala Ser Leu Ala Ser Ser Ser Ala Ser	Ile	Ser	Gly	Ser		Asp	Thr	Thr	Cys		Val	Trp	Arg	Leu		His
Asp Met 770 Ala Val 201 Ser Gly 775 Glu Asp Gly Asp Gly Thr 780 Val 11e The His 780 Val Arg Arg Arg Gly Gln Pho 785 Val 775 Val Ala Ala Leu Arg 795 Pro Leu Gly Ala Gly Ala 815 Phe Pro Gly Pro 31e 805 Phe His 805 Phe His 810 Ser Glu Gly 815 Val Val Gln Ser 820 Ser Ala Trp Glu Asg Pro Gly Ala Gln 830 Thr 830 Ser Leu His 835 Leu Tyr Ser Val Asg Gly Lys Leu Arg 845 Ser Leu 845 Leu Ala 850 Glu Gln Pro Thr Ala 855 Leu Thr Val Thr 860 Asp Phe Val 865 Leu Ala 850 Glu Thr Ala Gln Cys 870 Ala Leu His 875 Leu His 875 Thr 860 Thr 860 Thr 860 Leu Pro Ala Ala Ala Pro 885 Pro Leu Pro Met Lys Val Ala Ileu Clu Arg 895 Ala Ser 895 Ala 895	Gln	Gly	Gly		Ser	Val	Gly	Leu		Pro	Lys	Pro	Val		Val	Leu
Val 785 780 Val 785 780 Val 785 Arg Arg Arg Gly Gly Gln Phe 790 Val Ala Ala Leu Arg 795 Pro Leu Gly Ala Gln 815 Phe Pro Pro Gly Fro Gly Val Val Val Gln Ser 805 Phe 805 Phe His Leu Ala Leu Arg Pro Gly Ala Gln 815 Val Val Gln Ser 820 Ser Ala Trp Glu Asp 610 Pro Gly Lys Leu Arg Ala Gln 830 Phe 845 Ser Leu 835 Leu Tyr Ser Val 840 Gly Lys Leu Arg 845 Ala Ser Leu 845 Leu 850 Glu Gln Pro Thr Ala Leu Thr 855 Leu Thr Val Thr 860 Asp 860 Phe Val 885 Leu Pro Ala Ala Ala Pro 885 Pro Leu Pro Met Lys Shu Val Ala Ile Arg 895 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp	Tyr	Gly		Gly	Ala	Ala	Val		Cys	Val	Ala	Ile		Thr	Glu	Leu
785	Asp		Ala	Val	Ser	Gly		Glu	Asp	Gly	Thr		Ile	Ile	His	Thr
Val Val Gln Ser 820 Ser Ala Trp Glu 825 Fro Gly Ala Gln Val Thr 830 Thr 830 Ser Leu His 835 Leu Tyr Ser Val 840 Gly Lys Leu Arg Ala Ser Leu 845 Ser Leu 845 Ser Leu 845 Leu Ala Glu Gln Pro Thr 850 Thr Ala 855 Leu Thr Val Thr 860 Asp Phe Val 865 Leu Gly Thr Ala Gln Cys 870 Ala Leu His 1le Leu Gln Leu Asp Thr 875 Leu Pro Ala Ala Pro 885 Pro Het Lys Val Ala Ile Arg Ser 895 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp		Arg	Arg	Gly	Gln		Val	Ala	Ala	Leu		Pro	Leu	Gly	Ala	Thr 800
Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Ass Ser Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val 850	Phe	Pro	Gly	Pro		Phe	His	Leu	Ala		Gly	Ser	Glu	Gly		Ile
Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val 850 Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr 865 Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser 895 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp	Val	Val	Gln		Ser	Ala	Trp	Glu		Pro	Gly	Ala	Gln		Thr	Тух
Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr 865 Leu Pro Ala Ala Pro Rec Pro Leu Pro Met Lys Val Ala Ile Arg Ser 895 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp	Ser	Leu		Leu	Tyr	Ser	Val		Gly	Lys	Leu	Arg		Ser	Leu	Pro
Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser 885 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp	Leu		Glu	Gln	Pro	Thr		Leu	Thr	Val	Thr		Asp	Phe	Val	Leu
885 890 895 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp		Gly	Thr	Ala	Gln		Ala	Leu	His	Ile			Leu	Asn	Thr	Leu 880
000	Leu	Pro	Ala	Ala		Pro	Leu	Pro	Met		Val	Ala	Ile	Arg		Val
,	Ala	Val	Thir		Glu	Arg	Ser	His		Leu	Val	Gly	Leu		Asp	Gly

Lys Leu Ile Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser 915 920

Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val 930 935

Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg 950 955

<210> 2013

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2013

Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu
1 10 15

Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser 20 25 30

Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met
35 40 45

Arg Val Leu Val Leu Leu Ile Trp Ser 50 55

<210> 2014

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2014

Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu

1 10 15

Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser 20 25 30

Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met 35 40 45

Arg Val Leu Val Leu Leu Ile Trp Ser 50 55

<210> 2015

<211> 75

<212> PRT

<213> Homo sapiens

<400> 2015

Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
1 5 10 15

Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly 20 25 30 ·

Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys 35 40 45

Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro 50 $$ 55 $$ 60

Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys

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PCT/US01/11988

65 70 75

<210> 2016

<211> 42

<212> PRT

<213> Homo sapiens

<400> 2016

Met Arg Leu Ser Lys Ser Asn Gln Val Gln Leu Phe Leu Tyr Phe Leu 1 5 10 15

Leu Gln Trp Ser Leu Gly Ser Val Asn Ala Glu Thr Ser Leu Gln Ile
20 25 30

Leu Leu Ala Cys Ser Phe Thr Thr Asp Ser 35

<210> 2017

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2017

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser 1 5 10 15

Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly 20 25 30

Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln
35 40

Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys 50 55 60

Leu Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys 65 70 75 80

Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro 85 90 95

Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu 100 105 110

Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
115 120 125

Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala 130 135 140

Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala 145 150 155 160

Met Gln Thr Gly Ser Pro Ala Ser Thr 165

<210> 2018

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2018

Met Val Lys His Phe Thr Leu Trp Met Val Cys Leu Ser Leu Val Phe
1 5 10 15

Arg Lys Leu Leu Ser Leu Leu Pro Lys Lys Lys Glu Gly Gln Val Asn 20 25 30

Phe Phe Asn Gln Lys Lys Ile Thr His Phe Ile Lys Pro 35 40 45

<210> 2019

<211> 388

<212> PRT

<213> Homo sapiens

<400> 2019

Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr 1 5 10 15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile 20 25 30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe 35 40 45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu 50 55 60

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys 65 70 75 80

Phe Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu 85 90 95

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly
100 105 110

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro 115 120 125

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg 130 135 140

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu 145 150 155 160

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys
165 170 175

Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro 180 · 185 190

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp 195 200 205

Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala 210 215 220

Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro 225 230 235 240

Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu . 245 250 255

Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile 260 265 270

Phe Gln Leu Ala Met Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr 275 280 285

Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe 290 295 300

Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser 305 310 315 320

Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Fle Phe His Leu Met Gln 325 330 335

Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu 340 345 350

Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His 355 360 365

Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu 370 375 380

Pro Ala Pro Cys

<210> 2020

<211> 554

<212> PRT

. <213> Homo sapiens

<400> 2020

Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly

1 5 10 15

Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg 20 25 30

Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu 35 40 45

Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu 50 55 60

Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala 85 90 Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu 105 Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe 115 120 Pro Ser Gly Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys . 135 Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr 150 155 Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala 170 Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu 185 Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln 200 , 205 Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu 210 Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val 225 , 230 Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser 290 295 Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg 310 Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala 325 . 330 Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys 360 · Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu 375 380

Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile 385 390 395 400

Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro . 405 . 410 415

Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala 420 425 430

Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile 435 440 445

Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn 450 455 460

Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro 465 470 475 480

Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln 485 490 495

Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg 500 505 510

Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro 515 520 525

Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro 530 540

Glu Lys Glu Lys Lys Lys Lys Lys Lys 545 550

<210> 2021

<211> 509

<212> PRT

<213> Homo sapiens

<400> 2021

Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp 1 5 10 _ 15

Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser 20 25 30

His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
35 40 45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser 50 55 60

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Ser Val 65 70 75 80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp 85 90 95

Ile Asn Gly Ala Ala Val Arg Pro'Glu Gln Arg Pro Ala Ala Arg Gly

			100					105		•			110					
Ser	Pro	Arg 115	Glu	Met	Ile	Arg	Asp 120	Glu	Gly	Ser	Ser	Ala 125	Arg	Ser	Arg			
Met	Leu 130	Arg	Phe	Pro	Ser	Gly 135	Ser	Ser	Ser	Pro	Asn 140	Ile	Leu	Ala	Ser			
Phe 145	Ala	Gly	Lys	Asn	Arg 150	Val	Trp	Val	Ile	Ser 155	Ala	Pro	His	Ala	Ser 160			
Glu	Gly	Tyr	Tyr	Arg 165	Leu	Met	Met	Ser	Leu 170	Leu	Lys	Asp	Asp	Val 175	Tyr			
Cys	Glu	Leu	Ala 180	Glu	Arg	His	Ile	Gln 185	Gln	Ile	Val	Leu	Phe 190	His	Gln			
Ala	Gly	Glu 195	Glu	Gly	Gly	Lys	Val 200	Arg	Arg	Ile	Thr	Ser 205	Glu	Gly	Gln			
Ile	Leu 210	Glu	Gln	Pro	Leu	Asp 215	Pro	Ser	Leu	Ile	Pro 220	Lys	Leu	Met	Ser		•	
Phe 225	Leu	Lys	Leu	Glu	Lys 230	Gly	.Lys	Phe	Gly	Met 235	Val	Leu	Leu	Lys	Lys 240			
Thr	Leu	Gln	Val	Glu 245	Glu	Arg	Tyr	Pro	Тут 250		Val	Arg	Leu	Glu 255	Ala			
			260		Asp			265		•			270					
		275			Val		280			-		285					,	
	290				Gly	295		•			300							
305	•				Lys 310					315					320			
				325	Ser				330					335				
			340		Pro			345					350				•	
		355			Ala		360					365						
	370	•			Arg	375					380			ē				
385				-	Pro 390					395					400			
				405	Arg				410					415				•
Pro	Ser	Arg	.Lys	Asp	Gln	His	Arg		Arg 317	Pro	Gln	Thr	Thr	Arg	Arg	•	-	•

420 425 430

Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr 435 440 445

Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg 450 455 460

Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val 465 470 475 480

Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys 490 495

Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val
500 505

<210> .2022

<211> 264

<212> PRT

<213> Homo sapiens

<400> 2022

Met Cys Leu Leu Gly Ala Leu Val Leu Gly Leu Gly Val Leu Leu 1 5 10 10 15

Phe Ser Gly Gly Leu Ser Glu Ser Glu Thr Gly Pro Met Glu Glu Val 20 25 30

Glu Arg Gln Val Leu Pro Asp Pro Glu Val Leu Glu Ala Val Gly Asp 35 40 45

Arg Gln Asp Gly Leu Arg Glu Gln Leu Gln Ala Pro Val Pro Pro Asp 50 55 60

Ser Val Pro Ser Leu Gln Asn Met Gly Leu Leu Leu Asp Lys Leu Ala 65 70 75 80

Lys Glu Asn Gln Asp Ile Arg Leu Gln Ala Gln Leu Gln Ala Gln 85 90 95

Lys Glu Glu Leu Gln Ser Leu Met His Gln Pro Lys Gly Leu Glu Glu 100 105 110

Glu Asn Ala Gln Leu Arg Gly Ala Leu Gln Gln Gly Glu Ala Phe Gln 115 120 125

Arg Ala Leu Glu Ser Glu Leu Gln Gln Leu Arg Ala Arg Leu Gln Gly 130 135 140

Leu Glu Ala Asp Cys Val Arg Gly Pro Asp Gly Val Cys Leu Ser Gly 145 150 155 160

Gly Arg Gly Pro Gln Gly Asp Lys Ala Ile Arg Glu Gln Gly Pro Arg . 165 170 175

Glu Gln Glu Pro Glu Leu Ser Phe Leu Lys Gln Lys Glu Gln Leu Glu 180 185 190

Ala Glu Ala Gln Ala Leu Ser Leu Glu Glu Val Ala Val Gln Gln Thr 195 200 205

Gly Asp Asp Glu Val Asp Asp Phe Glu Asp Phe Ile Phe Ser His 210 215 220

Phe Phe Gly Asp Lys Ala Leu Lys Lys Arg Ser Gly Lys Lys Asp Lys 225 230 235 240

His Ser Gln Ser Pro Arg Ala Ala Gly Pro Arg Glu Gly His Ser His 245 250 255

Ser His His His His Arg Gly 260

<210> 2023

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2023

Met Leu Cys Leu Ser Ser Val Val Met Phe Leu Pro Gln Pro Gly Ala 1 5 10 15

Ala Ser Asp Pro Leu Phe Ile Trp Glu Ala Ser Cys His Ser Leu Gly
20 25 30

Gln Asn Trp Ala Gln Gly Lys Gly Leu Ser Pro Glu Asp Gly Leu Glu
35 40 45

Gly Leu Gly His Thr Arg Ala Trp Thr Phe Gly Ala Gly Glu Pro Gly 50 55 60

Leu Arg Leu Leu Asn Val Arg Gly Leu Leu Thr Arg Gly Pro Ser Arg 65 70 75 80

Gly Ser Leu Cys Pro Leu Leu Trp Ser Asp Gln Ala Leu His Leu Ser 85 90 95

Ala Gly Pro Leu Trp Gln Arg Ser Pro Val Leu Phe Leu Leu Phe Leu 100 105 110

Phe Leu Thr Lys Ala Cys Ala Thr Ser Cys Pro 115 120

<210> 2024

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2024

Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu

1 10 15

Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val

20 25 30

Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg 35 40 45

Leu Glu His Val Lys Gly Ile Phe Lys 50 55

<210> 2025

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2025

Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu 1 5 10 15

Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val 20 25 30

Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg 35 40 45

Leu Glu His Val Lys Gly Ile Phe Lys 50 55

<210> 2026

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2026

Met Glu Ile Arg Thr Arg Val Val Trp Leu Cys Leu Cys Leu Cys Leu 1 5 15

Cys Leu Cys Leu Ser Leu Phe Ser Leu Pro Xaa Ser Leu Ser 20 25 30

Pro Leu Pro Ser Pro Leu Ser Leu Ser Val Ser Leu Ser Leu Ser Phe 35 40 45

His Gly Leu Pro Leu Met Pro Ser Arg Ser Trp Thr Val Leu Leu Pro 50 55 60

Ser Gln Leu Thr Ala Thr Ser Leu Pro Asp Ser Pro Ala Ser Ala Cys 65 70 75 80

Arg Val Pro Ala Ile Ala Gly Ala Arg His His Ala 85 90

<210> 2027

<211> 82

<212> PRT

<213> Homo sapiens

<400> 2027

Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg

1 10 15

Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
20 25 . 30

Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala 35 40 45

Ser Met Val Ser Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr 50 55 60

Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser 65 70 75 80

Lys Ser ·

<210> 2028

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2028

Met Val Thr Ala Ser Leu Leu Leu Pro Ala Val Met Ala Ile Val 1 5 10 15

Phe Pro Ile Thr Trp Ala Val Gln Ser Gln Ser Trp Ala Ala Glu Phe 20 25 30

Asn Gly Ala Cys Phe Gln Val Leu His Gly Lys Leu Tyr Ser 35 40 45

<210> 2029

<211> 176

<212> PRT

<213> Homo sapiens

<400> 2029

Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro 1 5 10 15

. Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr

Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg 35 40 45

Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val

50 55 60

Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg 65 70 75 80

Leu Ser Gln Asp Pro Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly Gly 85 90 95

Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu 100 105 110

Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr 115 120 125

Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro 130 135 140

Glu Pro Glu Leu Tyr Ala Ser Val Cys Ala Gln Thr Arg Arg Ala Arg 145 150 155 160

Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser 165 170 175

<210> 2030

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2030

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly

1 10 15

Pro Leu His Thr Glu Ala Val Val Leu Val Pro Ser Asp Asp Gly 20 25 30

Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln 50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu 65 70 75 80

Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
85 90 95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly 100 105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg 115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu 130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr 145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys 165

<210> 2031 .

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2031

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
20 25 30

Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val 35 40 45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln 50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu 65 70 75 80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly 100 105 110

Leu Pro Ala Pro Ser Xaa Leu Leu Xaa His Ala Ser Ala Pro Val Arg 115 120 125

Thr Val Cys Ala Leu Thr Trp 130 135

<210> 2032

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2032

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly 20 25 30

Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val 35 40 45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln 50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu 65 70 75 80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His

85

90

95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly 100 105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg 115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu 130 135 · 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr 145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys 165

<210> 2033 ·

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2033

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly

20 25 30

Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Met Tyr 35 40 45

Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg
50 55 60

Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Pro Tyr 65 70 75 80

Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met 85 90 95

Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala 100 105 110

Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu 115 120 125

Gln Val Val Lys Ala Lys 130

<210> 2034

<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2034

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly 1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly 20 . 25 . 30

Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val 35 40 45 .

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln 50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu 65 70 75 . 80

Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His 85 90 95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly 100 105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg 115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr 145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys 165

<210> 203.5

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2035

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly 20 25 30

Arg Ala Phe Leu Leu Arg Xaa Gly Phe Phe Ile Arg Arg Met Tyr 35 40 45

Pro Pro Pro Leu Ile Glu Glu Pro Ala Phe Asn Val Ser Tyr Thr Arg
50 55 60

Gln Pro Pro Asn Pro Gly Pro Gly Ala Gln Gln Pro Gly Pro Tyr 65 70 75 80

Tyr Thr Asp Pro Gly Gly Pro Gly Met Asn Pro Val Gly Asn Ser Met 85 90 95

Ala Met Ala Phe Gln Val Pro Pro Asn Ser Pro Gln Gly Ser Val Ala 100 105 110

Cys Pro Pro Pro Pro Ala Tyr Cys Asn Thr Pro Pro Pro Pro Tyr Glu 115 120 125

Gln Val Val Lys Ala Lys. · 130

<210> 2036

<211> 468

<212> PRT

<213> Homo sapiens

<400> 2036

Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu Gly Ala Val Trp

1 10 15

Leu Leu Ser Ser Gly His Gly Glu Glu Gln Pro Pro Glu Thr Ala Ala 25 Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys Asp Val Glu Thr Ile Asp Arg Phe Asn Asn Tyr Arg Leu Phe Pro Arg Leu Gln Lys Leu Glu Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn Leu Lys Arg Pro Cys Pro Phe Trp Asn Asp Ile Ser Gln Cys Gly Arg Arg Asp Cys Ala Val Lys Pro Cys Gln Ser Asp Glu Val Pro Asp Gly 100 105 Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Glu Glu Ala Asn Asn Leu Ile . 120 Glu Glu Cys Glu Gln Ala Glu Arg Leu Gly Ala Val Asp Glu Ser Leu Ser Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr Lys His Asp Asp 150 Ser Ser Asp Asn Phe Cys Glu Ala Asp Asp Ile Gln Ser Pro Glu Ala 165 Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr Thr Gly Tyr Lys 185 Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr Glu Glu Asn Cys 200 Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro Leu Ala Ser Gly . Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp Leu Glu Gly Leu Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser Gly Leu His Ala Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu Gln Glu Thr Trp . 265 Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe Gln Gln Arg Phe 275 280 Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg Leu Lys Asn Leu Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser Lys Val Leu Pro Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly Asn Lys Ile Gln 330 325

Asp Glu Glu Asn Lys Met Leu Leu Glu Ile Leu His Glu Ile Lys 340 345 350

Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe Ala Gly Asp Lys 355 360 365

Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu His Phe Arg Asn 370 375 380

Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys Cys Arg Leu Trp 385 390 395 400

Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu Lys Ile Leu Phe 405 410 415

Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly Pro Ser Tyr Glu
420 425 430

Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe Asn Ala Phe Gly 435 440 445

Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe Arg Asn Leu Leu 450 . 460

Gln Asn Ile His

<210> 2037

<211> 314

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2037

Met Leu Leu Ala Gln Gly Leu Ile Leu His Phe Leu Gly Arg Ala Trp

1 10 15

Thr Trp Pro Asp Ala Leu Asn Ile Glu Asn Ser Asp Ser Glu Ser Trp
20 25 30

Thr Ser His Thr Val Lys Lys Phe Thr Ala Ser Phe Glu Ala Ser Leu 35 40 45

Ser Gly Glu Arg Glu Phe Lys Thr Pro Thr Ile Ser Leu Lys Glu Thr 50 55 60

Ile Gly Lys Tyr Ser Asp Asp His Glu Met Arg Asn Glu Val Tyr His 65 70 75 80

Arg Lys Ile Ile Ser Trp Phe Gly Asp Ser Pro Leu Ala Leu Phe Gly 85 90 95

Leu His Gln Leu Ile Glu Tyr Gly Lys Lys Ser Gly Lys Lys Ala Gly 100 .105 .110

155

Asp Trp Tyr Gly Pro Ala Val Val Ala His Ile Leu Arg Lys Ala Val 115 120 125

Glu Glu Ala Arg His Pro Asp Leu Gln Gly Ile Thr Ile Tyr Val Ala 130 135 140

Gln Asp Cys Thr Val Pro Val Arg Leu Gly Gly Glu Arg Thr Asn Thr

150

Asp Tyr Leu Glu Phe Val Lys Gly Ile Leu Ser Leu Glu Tyr Cys Val 165 170 175

Gly Ile Ile Gly Gly Lys Pro Lys Gln Ser Tyr Tyr Phe Ala Gly Phe 180 185 190

Gln Asp Asp Ser Leu Ile Tyr Met Asp Pro His Tyr Cys Gln Ser Phe 195 200 . 205

Val Asp Val Ser Ile Lys Asp Phe Pro Leu Glu Thr Phe His Cys Pro 210. 215 220

Ser Pro Xaa Lys Met Ser Phe Arg Lys Met Asp Pro Ser Cys Thr Ile 225 230 235 240

Gly Phe Tyr Cys Arg Asn Val Gln Asp Phe Lys Arg Ala Ser Glu Glu 245 250 255

Ile Thr Lys Met Leu Lys Phe Ser Ser Lys Glu Lys Tyr Pro Leu Phe 260° 265 270

Thr Phe Val Asn Gly His Ser Arg Asp Tyr Asp Phe Thr Ser Thr Thr 275 280 285

Thr Asn Glu Glu Asp Leu Phe Ser Glu Asp Glu Lys Lys Gln Leu Lys 290 295 300

Arg Phe Ser Thr Glu Glu Phe Val Leu Leu 305 310

<210> 2038

<211> 56

<212> PRT

<213> Homo sapiens

<400> 2038

Met Arg Trp Leu Phe Val Leu Met Leu Ser Leu Pro Leu Pro Pro Thr 1 5 10 15

Pro Arg Gln Gly Pro Ala Cys Asp Val Pro Leu Pro Val Ser His Val 20 25 30

Phe Ser Leu Phe Asn Ser His Leu Gly Ala Arg Thr Cys Gly Val Trp
35 40 45

Phe Ser Leu Pro Val Ser Val Cys
50 55

<210> 2039

<211> 414

<212> PRT

<213> Homo sapiens

<400> 2039

Met Lys Ala Gln Thr Ala Leu Ser Phe Phe Leu Ile Leu Ile Thr Ser 1 5 10 15

Leu Ser Gly Ser Gln Gly Ile Phe Pro Leu Ala Phe Phe Ile Tyr Val 20 25 30

Pro Met Asn Glu Gln Ile Val Ile Gly Arg Leu Asp Glu Asp Ile Ile 35 40 45

Leu Pro Ser Ser Phe Glu Arg Gly Ser Glu Val Val Ile His Trp Lys 50 55 60

Tyr Gln Asp Ser Tyr Lys Val His Ser Tyr Tyr Lys Gly Ser Asp His 65 70 75 80

Leu Glu Ser Gln Asp Pro Arg Tyr Ala Asn Arg Thr Ser Leu Phe Tyr 85 90 95

Asn Glu Ile Gln Asn Gly Asn Ala Ser Leu Phe Phe Arg Arg Val Ser 100 105 110

Leu Leu Asp Glu Gly Ile Tyr Thr Cys Tyr Val Gly Thr Ala Ile Gln
115 120 125

Val Ile Thr Asn Lys Val Val Leu Lys Val Gly Val Phe Leu Thr Pro 130 135 140

Val Met Lys Tyr Glu Lys Arg Asn Thr Asn Ser Phe Leu Ile Cys Ser 145 150 155 160

Val Leu Ser Val Tyr Pro Arg Pro Ile Ile Thr Trp Lys Met Asp Asn 165 170 175

Thr Pro Ile Ser Glu Asn Asn Met Glu Glu Thr Gly Ser Leu Asp Ser 180 - 185 190

Phe Ser Ile Asn Ser Pro Leu Asn Ile Thr Gly Ser Asn Ser Ser Tyr 195 200 205

Glu Cys Thr Ile Glu Asn Ser Leu Leu Lys Gln Thr Trp Thr Gly Arg 210 215 220

Trp Thr Met Lys Asp Gly Leu His Lys Met Gln Ser Glu His Val Ser 225 230 235 240

Leu Ser Cys Gln Pro Val Asn Asp Tyr Phe Ser Pro Asn Gln Asp Phe 245 · 250 255

Lys Val Thr Trp Ser Arg Met Lys Ser Gly Thr Phe Ser Val Leu Ala 260 265 270

Tyr Tyr Leu Ser Ser Ser Gln Asn Thr Ile Ile Asn Glu Ser Arg Phe

275 280 285

Ser Trp Asn Lys Glu Leu Ile Asn Gln Ser Asp Phe Ser Met Asn Leu 290 295 300

Met Asp Leu Asn Leu Ser Asp Ser Gly Glu Tyr Leu Cys Asn Ile Ser 305 310 315 320

Ser Asp Glu Tyr Thr Leu Leu Thr Ile His Thr Val His Val Glu Pro 325 330 335

Ser Gln Glu Thr Ala Ser His Asn Lys Gly Leu Trp Ile Leu Val Pro 340 345 350

Ser Ala Ile Leu Ala Ala Phe Leu Leu Ile Trp Arg Val Lys Cys Cys 355 360 365

Arg Ala Gln Leu Glu Ala Arg Arg Ser Arg His Pro Ala Asp Gly Ala 370 375 380

Gln Gln Glu Arg Cys Cys Val Pro Pro Gly Glu Arg Cys Pro Ser Ala 385 390 395 400

Pro Asp Asn Gly Glu Asn Val Pro Leu Ser Gly Lys Val 405 410

<210> 2040

<211> 200

<212> PRT

<213> Homo sapiens

<400> 2040

Met Ala Ser Ser Leu Thr Cys Thr Gly Val Ile Trp Ala Leu Leu Ser 1 5 10 15

Phe Leu Cys Ala Ala Thr Ser Cys Val Gly Phe Phe Met Pro Tyr Trp 20 25 30

Leu Trp Gly Ser Gln Leu Gly Lys Pro Val Ser Phe Gly Thr Phe Arg '35 40 45

Arg Cys Ser Tyr Pro Val His Asp Glu Ser Arg Gln Met Met Val Met 50 60

Val Glu Cys Gly Arg Tyr Ala Ser Phe Gln Gly Ile Pro Ser Ala 65 70 75 80

Glu Trp Arg Ile Cys Thr Ile Val Thr Gly Leu Gly Cys Gly Leu Leu 85 90 95 .

Leu Leu Val Ala Leu Thr Ala Leu Met Gly Cys Cys Val Ser Asp Leu 100 105 110

Ile Ser Arg Thr Val Gly Arg Val Ala Gly Gly Ile Gln Phe Leu Gly 115 120 125

Gly Leu Leu Ile Gly Ala Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asp 130 135 140

Ser Glu Glu Val Arg Gln Thr Cys Gly Tyr Thr Ser Gly Gln Phe Asp 145 150 155 160

Leu Gly Lys Cys Glu Ile Gly Trp Ala Tyr Tyr Cys Thr Gly Ala Gly 165 \cdot 170 . 175

Ala Thr Ala Ala Met Leu Leu Cys Thr Trp Leu Ala Cys Phe Ser Gly 180 185 190

Lys Lys Gln Lys His Tyr Pro Tyr 195 · 200

<210> 2041

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2041

Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr 1 5 10 15

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val 20 25 30

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys
35 40 45

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe 50 55 60

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp 65 70 75 80

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val 85 90 95

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr 100 105 110

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe 115 120 125

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys 130 140

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp 145 150 155 160

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro 165 170 175

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val 180 185 190

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe 195 200 205

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr 210 215 220

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu 225 230 235 240

Lys Ala Thr Arg Ala Pro His Thr Asp

<210> 2042

<211> 249

<212> PRT

<213> Homo sapiens

<400> 2042

Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr 1 5 10 15

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val
20 25 30

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys 354045

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe 50 55 60

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp
65 70 75 80

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val 85 90 95

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr 100 105 110

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe 115 120 125

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys 130 135 140

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp 145 150 155 160

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro 165 170 175

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val 180 185 190

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe 195 200 205

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr 210 215 220

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu

225 230 235 240

·Lys Ala Thr Arg Ala Pro His Thr Asp 245

<210> 2043

<211> 60 ·

<212> PRT

<213> Homo sapiens

<400> 2043

Met Ser Pro Thr Gly Leu Leu Val Val Phe Ala Pro Val Val Leu Gly
1 5 10 15

Leu Lys Ala Ile Thr Leu Ala Ala Leu Leu Leu Ala Leu Ala Thr Ser 20 25 . 30

Arg Arg Ser Pro Gly Gln Glu Asp Val Lys Thr Thr Gly Pro Ala Gly 35 40 45

Ala Met Asn Thr Leu Ala Trp Ser Lys Gly Gln Glu
50 55 60

. <210> 2044

<211> 60.

<212> PRT

<213> Homo sapiens

<400> 2044

Met Ser Pro Thr Gly Leu Leu Val Val Phe Ala Pro Val Val Leu Gly
1 5 10 15

Leu Lys Ala Ile Thr Leu Ala Ala Leu Leu Leu Ala Leu Ala Thr Ser 20 25 30

Arg Arg Ser Pro Gly Gln Glu Asp Val Lys Thr Thr Gly Pro Ala Gly
35 40 45

Ala Met Asn Thr Leu Ala Trp Ser Lys Gly Gln Glu 50 55 60

<210> 2045

<211> 310

<212> PRT

<213> Homo sapiens

<400> 2045

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro

1 10 15

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val 20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser

35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 . 70 . 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu 100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys 130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro 275 · 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His 290 295 300

Lys Ser Ser Phe Val Ile 305 310

<210> 2046

<211> 310

<212> PRT

<213> Homo sapiens

<400> 2046

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro 1 5 10 15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val 20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser 35 40

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg 50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu-100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys 130 135 · 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His 290 295 300

Lys Ser Ser Phe Val Ile 305 310

<210> 2047

<211> 310 <212> PRT

<213> Homo sapiens

<40.0> 2047

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
1 5 10 15

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val 20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser 35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys 130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 . 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His 290 295 300

Lys Ser Ser Phe Val Ile 305 310

<210> 2048

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2048

Met His Met Leu Asn Gly Ala Leu Leu Ala Leu Leu Phe Pro Val Val 1 5 10 15

Asn Thr Arg Leu Leu Pro Phe Glu Leu Glu Ile Tyr Tyr Ile Gln His 20 25 30

Val Met Leu Tyr Val Val Pro Ile Tyr Leu Leu Trp Lys Gly Gly Ala 35 40 45

Tyr Thr Pro Glu Pro Leu Ser Ser Phe Arg Trp Ala Leu Leu Ser Thr 50 55 60

Gly Leu Met Phe Phe Tyr His Phe Ser Val Leu Gln Ile Leu Gly Leu 65 70 75 . 80

Val Thr Glu Val Asn Leu Asn Asn Met Leu Cys Pro Ala Ile Ser Asp 85 90 95

Pro Phe Tyr Gly Pro Trp Tyr Arg Ile Trp Ala Ser Gly His Gln Thr 100 105 110

Leu Met Thr Met Thr His Gly Lys Leu Val Ile Leu Phe Ser Tyr Met 115 120 125

Ala Gly Pro Leu Cys Lys Tyr Leu Leu Asp Leu Leu Arg Leu Pro Ala 130 140

Lys Lys Ile Asp 145

<210> 2049

<211> 413

<212> PRT

<213> Homo sapiens

<400> 2049

Met Leu Lys Ala Leu Phe Leu Thr Met Leu Thr Leu Ala Leu Val Lys

1 . 5 . 10 . 15

Ser Gln Asp Thr Glu Glu Thr Ile Thr Tyr Thr Gln Cys Thr Asp Gly 20 25 30

Tyr Glu Trp Asp Pro Val Arg Gln Gln Cys Lys Asp Ile Asp Glu Cys 35 Asp Ile Val Pro Asp Ala Cys Lys Gly Gly Met Lys Cys Val Asn His Tyr Gly Gly Tyr Leu Cys Leu Pro Lys Thr Ala Gln Ile Ile Val Asn Asn Glu Gln Pro Gln Gln Glu Thr Gln Pro Ala Glu Gly Thr Ser Gly Ala Thr Thr Gly Val Val Ala Ala Ser Ser Met Ala Thr Ser Gly Val 105 Leu Pro Gly Gly Phe Val Ala Ser Ala Ala Ala Val Ala Gly Pro Glu Met Gln Thr Gly Arg Asn Asn Phe Val Ile Arg Arg Asn Pro Ala 135 Asp Pro Gln Arg Ile Pro Ser Asn Pro Ser His Arg Ile Gln Cys Ala 150 155 Ala Gly Tyr Glu Gln Ser Glu His Asn Val Cys Gln Asp Ile Asp Glu 170 Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val Cys Ile Asn 185 Leu Arg Gly Ser Phe Ala Cys Gln Cys Pro Pro Gly Tyr Gln Lys Arg Gly Glu Gln Cys Val Asp Ile Asp Glu Cys Arg Thr Ser Ser Tyr Leu Cys Gln Tyr Gln Cys Val Asn Glu Pro Gly Lys Phe Ser Cys Met Cys Pro Gln Gly Tyr Gln Val Val Arg Ser Arg Thr Cys Gln Asp Ile Asn . 245 Glu Cys Glu Thr Thr Asn Glu Cys Arg Glu Asp Glu Met Cys Trp Asn 265 Tyr His Gly Gly Phe Arg Cys Tyr Pro Arg Asn Pro Cys Gln Asp Pro Tyr Ile Leu Thr Pro Glu Asn Arg Cys Val Cys Pro Val Ser Asn Ala 295 . Met Cys Arg Glu Leu Pro Gln Ser Ile Val Tyr Lys Tyr Met Ser Ile 315 Arg Ser Asp Arg Ser Val Pro Ser Asp Ile Phe Gln Ile Gln Ala Thr 325 . 330 Thr Ile Tyr Ala Asn Thr Ile Asn Thr Phe Arg Ile Lys Ser Gly Asn 340

Glu Asn Gly Glu Phe Tyr Leu Arg Gln Thr Ser Pro Val Ser Ala Met 355 360 365

Leu Val Leu Val Lys Ser Leu Ser Gly Pro Arg Glu His Ile Val Asp 370 375 380

Leu Glu Met Leu Thr Val Ser Ser Ile Gly Thr Phe Arg Thr Ser Ser 385 390 395 400

Val Leu Arg Leu Thr Ile Ile Val Gly Pro Phe Ser Phe 405 410

<210> 2050

<211> 683

<212> PRT

<213> Homo sapiens .

<400> 2050

Met Leu Phe Ile Phe Asn Phe Leu Phe Ser Pro Leu Pro Thr Pro Ala 1 5 10 15

Leu Ile Cys Ile Leu Thr Phe Gly Ala Ala Ile Phe Leu Trp Leu Ile 20 25 30

Thr Arg Pro Gln Pro Val Leu Pro Leu Leu Asp Leu Asn Asn Gln Ser 35 40 45

Val Gly Ile Glu Gly Gly Ala Arg Lys Gly Val Ser Gln Lys Asn Asn 50 55 60 .

Asp Leu Thr Ser Cys Cys Phe Ser Asp Ala Lys Thr Met Tyr Glu Val 65 70 75 80

Phe Gln Arg Gly Leu Ala Val Ser Asp Asn Gly Pro Cys Leu Gly Tyr 85 90 95

Arg Lys Pro Asn Gln Pro Tyr Arg Trp Leu Ser Tyr Lys Gln Val Ser 100 105 110

Asp Arg Ala Glu Tyr Leu Gly Ser Cys Leu Leu His Lys Gly Tyr Lys 115 120 125

Ser Ser Pro Asp Gln Phe Val Gly Ile Phe Ala Gln Asn Arg Pro Glu 130 135 140

Trp Ile Ile Ser Glu Leu Ala Cys Tyr Thr Tyr Ser Met Val Ala Val 145 150 155 160

Pro Leu Tyr Asp Thr Leu Gly Pro Glu Ala Ile Val His Ile Val Asn 165 . 170 175

Lys Ala Asp Ile Ala Met Val Ile Cys Asp Thr Pro Gln Lys Ala Leu 180 185 190

Val Leu Ile Gly Asn Val Glu Lys Gly Phe Thr Pro Ser Leu Lys Val 195 200 205

Ile Ile Leu Met Asp Pro Phe Asp Asp Leu Lys Gln Arg Gly Glu 215 Lys Ser Gly Ile Glu Ile Leu Ser Leu Tyr Asp Ala Glu Asn Leu Gly Lys Glu His Phe Arg Lys Pro Val Pro Pro Ser Pro Glu Asp Leu Ser Val Ile Cys Phe Thr Ser Gly Thr Thr Gly Asp Pro Lys Gly Ala Met 260 Ile Thr His Gln Asn Ile Val Ser Asn Ala Ala Ala Phe Leu Lys Cys 280 Val Glu His Ala Tyr Glu Pro Thr Pro Asp Asp Val Ala Ile Ser Tyr 290 295 . Leu Pro Leu Ala His Met Phe Glu Arg Ile Val Gln Ala Val Val Tyr 310 Ser Cys Gly Ala Arg Val Gly Phe Phe Gln Gly Asp Ile Arg Leu Leu Ala Asp Asp Met Lys Thr Leu Lys Pro Thr Leu Phe Pro Ala Val Pro 345 Arg Leu Leu Asn Arg Ile Tyr Asp Lys Val Gln Asn Glu Ala Lys Thr 360 Pro Leu Lys Lys Phe Leu Leu Lys Leu Ala Val Ser Ser Lys Phe Lys Glu Leu Gln Lys Gly Ile Ile Arg His Asp Ser Phe Trp Asp Lys Leu 390 . 395 Ile Phe Ala Lys Ile Gln Asp Ser Leu Gly Gly Arg Val Arg Val Ile 410 Val Thr Gly Ala Ala Pro Met Ser Thr Ser Val Met Thr Phe Phe Arg Ala Ala Met Gly Cys Gln Val Tyr Glu Ala Tyr Gly Gln Thr Glu Cys Thr Gly Gly Cys Thr Phe Thr Leu Pro Gly Asp Trp Thr Ser Gly His 455 Val Gly Val Pro Leu Ala Cys Asn Tyr Val Lys Leu Glu Asp Val Ala 470 475 465 · Asp Met Asn Tyr Phe Thr Val Asn Asn Glu Gly Glu Val Cys Ile Lys 490 Gly Thr Asn Val Phe Lys Gly Tyr Leu Lys Asp Pro Glu Lys Thr Gln Glu Ala Leu Asp Ser Asp Gly Trp Leu His Thr Gly Asp Ile Gly Arg 520

Trp Leu Pro Asn Gly Thr Leu Lys Ile Ile Asp Arg Lys Lys Asn Ile 530 535 540

Phe Lys Leu Ala Gln Gly Glu Tyr Ile Ala Pro Glu Lys Ile Glu Asn 545 555 560

Ile Tyr Asn Arg Ser Gln Pro Val Leu Gln Ile Phe Val His Gly Glu
565 570 575

Ser Leu Arg Ser Ser Leu Val Gly Val Val Val Pro Asp Thr Asp Val 580 585 590

Leu Pro Ser Phe Ala Ala Lys Leu Gly Val Lys Gly Ser Phe Glu Glu
595 600 605

Leu Cys Gln Asn Gln Val Val Arg Glu Ala Ile Leu Glu Asp Leu Gln 610 615 620

Lys Ile Gly Lys Glu Ser Gly Leu Lys Thr Phe Glu Gln Val Lys Ala 625 630 635 640

Ile Phe Leu His Pro Glu Pro Phe Ser Ile Glu Asn Gly Leu Leu Thr 645 650 655

Pro Thr Leu Lys Ala Lys Arg Gly Glu Leu Ser Lys Tyr Phe Arg Thr 660 665 670

Gln Ile Asp Ser Leu Tyr Glu His Ile Gln Asp 675 680

. <210> 2051

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2051

Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg 1 5 10 15

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Gly Trp
20 25 30

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn 35 40

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala 50 60

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn 65 70 75 80

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu 85 90 95

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala 100 105 110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr

115 120 125

Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser 130 135 140

Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val 145 150 155 160

Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu 165 170 175

Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln 180 185 190

Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys 195 200 205

Phe His Ile Met Phe Leu Phe Phe Ala Ala Met Phe Ser Val Ser 210 215 220

Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys 225 230 235 240

Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp 245 250 255

Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Phe 260 265 270

Gly Asp Glu Lys Lys Tyr Trp Leu Leu Pro Ile Phe Ser Ser Leu Gly 275 280 285

Asp Gly Cys Ser Phe Pro Thr Leu Pro Cys 290 295

<210> 2052

<211> 286

<212> PRT

<213> Homo sapiens

<400× 2052

Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg 1 5 10 15

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp 20 25 30

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn 35 40 45

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala 50 55 60

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn 65 70 75 80

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu 85 90 95

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala 100 105 110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr 115 120 125

Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser 130 140

Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val 145 150 155 160

Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu 165 170 175

Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln
180 185 190

Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys 195 200 205

Phe His Ile Met Phe Leu Phe Phe Ala Ala Met Phe Ser Val Ser 210 215 220

Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys 225 230 235 240

Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp 245 250 255

Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Leu 260 265 270

Val Met Arg Arg Ser Thr Gly Cys Tyr Pro Phe Phe Gln Val 275 280 285

<210> 2053

<211> 47

<212> PRT

<213> Homo sapiens

<400> 2053

Met Ser His Gly Ser Gln Pro Phe Leu Leu Leu Leu Ser Leu His Ile
1 5 10 15

Leu Ile Leu Ala Gly Ser Phe Leu Leu Phe Ser Pro Tyr Thr Ala Lys 20 25 30

Pro Ser Phe Ser Ser Ser Phe Ile Val Phe Pro Arg Ala Glu Met
35 40 45

<210> 2054

<211> 914

<212> PRT

<213> Homo sapiens

<400> 2054

Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu 1 5 10 15

Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr
20 25 30

Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr 35 40 45

Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu 50 60

Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu 65 70 75 80

Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu 85 90

Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro 100 105 110

Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys 115 120 125

Gly Glu Arg Ile His Leu Thr \dot{P} ro Asp Phe Ile Ala Gly Lys Lys Leu 130 135 140

Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu Trp Ala His 145 150 155 160

Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr 165 170 175

Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr 180 185 190

Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys 195 200 205

Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu 210 215 220

Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala 225 230 235 240

Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn 245 250 255

Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr 260 265 270

Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met 275 280 285

Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln 290 295 300

Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly

305 310 315 Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln · 330 Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala 345 Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg 360 Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser 375 Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn 405 Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile 425 His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln 455 Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln 515 520 Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val 535 Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys 545 550 Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr 580 Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu 600 Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala

Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu 1346

625 . 630 . 635 . 640

Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly 645 650 655

Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser 660 665 670

Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg Arg Val 675 680 685

Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn 690 695 700

Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp 705 710 715 720

Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser 725 730 735

Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro 740 745 750

Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu 755 760 765

Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr 770 780

Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg 785 790 795 800

Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro 805 810 815

Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile 820 . 825 830

Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp 835 840 845

Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu 850 855 860

Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr 865 870 875 880

Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile 885 890 . 895

His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser 900 905 910 .

Ile Ala

<210> 2055 <211> 83

<212> PRT

<213> Homo sapiens

<400> 2055

Met Ala Ser Cys Gly Leu Thr Gly Ala Ser Leu \cdot Pro Pro Cys Cys Cys \cdot 1 10 15

Ser Ser Phe Leu Ala Ala Leu Lys Ser Met Phe Trp Gly Leu Gly Ser 20 25 30

Leu Leu Trp Ser Leu Val Gly Ile Leu Ser Pro Ile Ser Ser Cys Phe 35 40 45

Cys Val Tyr Thr Cys Leu Thr Pro Gly Ser Ser Leu Phe Pro Arg 50 55 60

Ala Val Thr Gln Lys Leu Glu Gln Ser Val Pro Thr Lys Ala Leu Trp 65 70 . 75 80

Gly Trp Met

<210> 2056

<211> 68 ·

<212> PRT

<213> Homo sapiens

<400> 2056

Met Ala Thr Val Gly Leu Ser Trp Lys Lys Glu Leu Val Ile Leu Leu 1 5 10 15

Val Gly Pro Gly Ala Ala Leu Gln Pro Thr His Thr Cys Cys Ser 20 . 25 30

Leu Pro Ser Leu Ser Ser Leu Phe Pro Leu Arg Leu Asn Thr Lys Thr 35 40 45

Ser Pro Lys Thr Thr Arg Thr Asn Leu Tyr Leu Leu Ser Ile Ala Pro 50 60

Leu Ser His Leu 65

<210> 2057

<211> 73 · .

<212> PRT

<213> Homo sapiens

<400> 2057

Met Glu Leu Leu Lys Cys Ser Trp Gln Leu Phe Phe Ser Phe Leu Thr 1 5 10 15

His Cys Ser Ala Ser Thr Ile Val Trp Leu Phe Val Gln His Arg Leu 20 . 25 30

Ser Gln Ser His Asn Lys Pro Phe Phe Gly Ile Leu Gln Arg Cys His

45

. 40

Ser Trp His Leu Asn Arg Glu Ser Phe Val Pro Asn Gln Ser Phe Ser 50 55 60

Ile Tyr Glu Ser Cys Ser Ile Arg Lys
65 70

<210> 2058

<211> 85

<212> PRT

<213> Homo sapiens

<400> 2058

Met Gln Val Phe Phe Leu Ser.Glu Ile Gly Met Leu Trp Val Val 1 5 10 15

Lys Met Ala His Ser Ala Met Leu Val Ser His Thr Gln Asp Pro Thr 20 25 30

Pro Ser Arg Trp Pro Cys Ser Leu Ala Gln Ser Ile Leu Leu Thr Cys 35 40 45

Ser Pro Gln His Arg Phe Ser Leu Glu Arg Lys Ile Gln Leu Pro Pro 50 60

Arg Arg Trp Trp Ala Glu Gly Arg Glu Gly Cys Trp Val Arg Glu Arg 65 70 75 80

Val Gly Glu Arg Thr 85

<210> 2059

<211> 51

<212> PRT

<213> Homo sapiens

<400> 2059

Met Leu Thr Leu Thr His Phe Val Ser Tyr Asp Tyr Phe Ile Val Lys 1 5 10 15

Arg Leu Val Gly Trp Leu Val Gly Trp Leu Val Cys Phe Val Leu Val 20 25 30

Ser Pro Phe Ile His Ser Leu Ser Thr Asn Tyr Asn Phe Leu Cys Phe . 35 $_{\cdot}$ 45

Met Cys Gly 50

<210> 2060

<211> 354

<212> PRT

<213> Homo sapiens

<400> 2060

Met Ala Pro Ala Lys Ala Thr Asn Val Val Arg Leu Leu Gly Ser 1 5 10 15

Thr Ala Leu Trp Leu Ser Gln Leu Gly Ser Gly Thr Val Ala Ala Ser 20 25 30

Lys Ser Val Thr Ala His Leu Ala Ala Lys Trp Pro Glu Thr Pro Leu 35 40 45

Leu Leu Glu Ala Ser Glu Phe Met Ala Glu Glu Ser Asn Glu Lys Phe 50 55 . 60

Trp Gln Phe Leu Glu Thr Val Gln Glu Leu Ala Ile Tyr Lys Gln Thr 65 70 75 80

Glu Ser Asp Tyr Ser Tyr Tyr Asn Leu Ile Leu Lys Lys Ala Gly Gln
85 90 95

Phe Leu Asp Asn Leu His Ile Asn Leu Leu Lys Phe Ala Phe Ser Ile 100 105 110

Arg Ala Tyr Ser Pro Ala Ile Gln Met Phe Gln Gln Ile Ala Ala Asp 115 120 125

Glu Pro Pro Pro Asp Gly Cys Asn Ala Phe Val Val Ile His Lys Lys 130 135 140

His Thr Cys Lys Ile Asn Glu Ile Lys Lys Leu Leu Lys Lys Ala Ala 145 150 155 160

Ser Arg Thr Arg Pro Tyr Leu Phe Lys Gly Asp His Lys Phe Pro Thr 165 170 175

Asn Lys Glu Asn Leu Pro Val Val Ile Leu Tyr Ala Glu Met Gly Thr 180 185 190

Arg Thr Phe Ser Ala Phe His Lys Val Leu Ser Glu Lys Ala Gln Asn 195 200 205

Glu Glu Ile Leu Tyr Val Leu Arg His Tyr Ile Gln Lys Pro Ser Ser 210 215 220

Arg Lys Met Tyr Leu Ser Gly Tyr Gly Val Glu Leu Ala Ile Lys Ser 225 230 235

Thr Glu Tyr Lys Ala Leu Asp Asp Thr Gln Val Lys Thr Val Thr Asn 245 250 255

Thr Thr Val Glu Asp Glu Thr Glu Thr Asn Glu Val Gln Gly Phe Leu 260 265 270

Phe Gly Lys Leu Lys Glu Ile Tyr Ser Asp Leu Arg Asp Asn Leu Thr 275 280 285

Ala Phe Gln Lys Tyr Leu Ile Glu Ser Asn Lys Gln Met Met Pro Leu 290 295 300

Lys Val Trp Glu Leu Gln Asp Leu Ser Phe Gln Ala Ala Ser Gln Ile

305 310 315 320

Met Ser Ala Pro Val Tyr Asp Ala Ile Lys Leu Met Lys Asp Ile Ser 325 330 335

Gln Asn Phe Pro Ile Lys Ala Arg Val Gln Met Ile Gly Asn Val Leu 340 345 350

Ile Gly

<210> 2061

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2061

Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu 1 5 10 15

Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp 20 25 30

Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr 35 40 45

Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser 50 55 60

Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val 65 70 75 80

Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Ser Val Val Phe 85 90 95

Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser 100 105 110

Gln Gly Ser Gln Ser Ala Leu Gln Thr Cys Glu Tyr Tyr Pro Lys Thr 115 120 . 125

Cys Leu Gln Val Gly Val Gly Leu Glu Lys Glu Gln Arg Cys Phe Lys 130 135 140

Ile Lys Gln Gln Gly Leu His Ile Ile Val Ser Asp Lys 145 150 155

<210> 2062

<211> 67

<212> PRT

<213> Homo sapiens

<400> 2062

Met Val Leu Gly Phe Val Leu Leu Leu Phe Asn Met Gly Gly Thr Phe 1 5 10 15 .

Ser Asp Gly Arg Lys Glu Arg Arg Arg Thr Thr Phe Leu Arg Cys Cys 20 25 30

Asp Phe Ile Met Lys Pro Ser Pro Ala Leu Ile Leu Val Thr Ser Val 35 40 45

Gly Pro Val Leu Leu Gln Asn Ala Ser Trp Val Ser Val Cys Arg Thr 50 60

Leu Leu Ser 65

<210> 2063

<211> 43

<212> PRT

<213> Homo sapiens

<400> 2063

Met Tyr Phe Phe Phe Phe Leu Thr Phe Leu Ala Leu Trp Val Met Gly
1 5 10 15

Thr Thr Ala Met Ala Ser Pro Phe Phe Met Gly Tyr Gln Leu Gln Tyr 20 25 30

Gly Pro Gln Cys Cys Ser Gly His Phe Asn Asp 35 · 40

<210> 2064

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2064

Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp 1 5 10 15

Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln 20 25 30

Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro $35 \hspace{1cm} 40 \hspace{1cm} 45$

Trp Thr Glu Leu His His Cys Leu Arg 50 55

<210> 2065

<211> 51

<212> PRT

<213> Homo sapiens

<400> 2065

Met Ile Ile Cys Leu Ile Met Phe Tyr Phe Ile Ala Leu Ala Gly Ala 1 5 10 15 .

His Lys Arg Val Val Ile Gln Leu Arg Glu Gln Leu Ser Leu Glu Ser 20 25 30

Arg Asp Lys Cys Tyr Leu Ile Gln Lys Leu Thr Glu Ala Gln Arg Asp 35 40 45

Met Arg Asn 50

<210> 2066

<211> 366

<212> PRT

<213> Homo sapiens

<400> 2066

Met Ala Cys Leu Lys Thr Gln Arg Ala Pro Lys Ala Phe Leu Leu 1 5 10 15

Pro Leu Leu Tyr Phe Ala Gly Leu Ser Lys Leu Thr Gln Leu Gln 20 25 30

Val Cys Ser Gly Thr Asp Glu Asp Pro Asp Asp Lys Asn Ala Pro Phe 35 40 45

Arg Gln Arg Pro Phe Cys Lys Tyr Lys Gly His Thr Ala Asp Leu Leu 50 55 60

Asp Leu Ser Trp Ser Lys Asn Tyr Phe Leu Leu Ser Ser Ser Met Asp 65 70 75 80

Lys Thr Val Arg Leu Trp His Ile Ser Arg Arg Glu Cys Leu Cys Cys 85 90 95

Phe Gln His Ile Asp Phe Val Thr Ala Ile Ala Phe His Pro Arg Asp 100 105 110

Asp Arg Tyr Phe Leu Ser Gly Ser Leu Asp Gly Lys Leu Arg Leu Trp 115 120 125

Asn Ile Pro Asp Lys Lys Val Ala Leu Trp Asn Glu Val Asp Gly Gln 130 135 140

Thr Lys Leu Ile Thr Ala Ala Asn Phe Cys Gln Asn Gly Lys Tyr Ala 145 150 155 160

Val Ile Gly Thr Tyr Asp Gly Arg Cys Ile Phe Tyr Asp Thr Glu His 165 . . 170 . . 175

Leu Lys Tyr His Thr Gln Ile His Val Arg Ser Thr Arg Gly Arg Asn 180 185 190

Lys Val Gly Arg Lys Ile Thr Gly Ile Glu Pro Leu Pro Gly Glu Asn 195 200 · · 205

Lys Ile Leu Val Thr Ser Asn Asp Ser Arg Ile Arg Leu Tyr Asp Leu 210 215 220

Arg Asp Leu Ser Leu Ser Met Lys Tyr Lys Gly Tyr Val Asn Ser Ser

Ser Gln Ile Lys Ala Ser Phe Ser His Asp Phe Thr Tyr Leu Val Ser 245 250 255

Gly Ser Glu Asp Lys Tyr Val Tyr Ile Trp Ser Thr Tyr His Asp Leu 260 265 270

Ser Lys Phe Thr Ser Val Arg Arg Asp Arg Asn Asp Phe Trp Glu Gly 275 280 280

Ile Lys Ala His Asn Ala Val Val Thr Ser Ala Ile Phe Ala Pro Asn 290 295 300

Pro Ser Leu Met Leu Ser Leu Asp Val Gln Ser Glu Lys Ser Glu Gly 305 310 315 320

Asn Glu Lys Ser Glu Asp Ala Glu Val Leu Asp Ala Thr Pro Ser Gly 325 330 335

Ile Met Lys Thr Asp Asn Thr Glu Val Leu Leu Ser Ala Asp Phe Thr 340 345 350

Gly Ala Ile Lys Val Phe Val Asn Lys Arg Lys Asn Val Ser 355 360 365

<210> 2067

<211> 187

<212> PRT

<213> Homo sapiens

<400> 2067

Met Val Ala Ala Thr Val Ala Ala Trp Leu Leu Leu Trp Ala Ala 1 5 10 15

Ala Cys Ala Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn 20 25 30

Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser 35 40 45

Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr 50 60

Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn 65 70 75 80

Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser 85 90 95

Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe 100 105 110

Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala 115 120 125

Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe 130 135 140

Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp 145 150 155 160

Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val 165 170 175

Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu 180 185

<210> 2068

<211> 346

<212> PRT

<213> Homo sapiens

<400> 2068

Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala 1 5 10 15

Gly Trp Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu 20 25 30

Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys 35 40 45

Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala 50 60

Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg 65 70 75 80

Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu 85 90 95

His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg 100 105 110

Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly 115 120 125

Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val 130 . 135 140

Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser 145 150 155 160

Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn 165 170 175

Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly 180 . 185 . 190

Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly 195 200 205

Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp. 210 215 220

Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg 225 230 235 240

Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr 245 250 255

Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met 260 265 270

Pro Ala Pro. Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
275 280 285

Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln 290 · 295 300

Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln 305 310 315

Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu 325 330 335

Leu Leu Ala Val Ala Ala Gly Val Leu Leu 340 345

<210> 2069

<211> 47

<212> PRT

<213> Homo sapiens

<400> 2069

Met Arg Leu Ser Arg Ala Ala His Asn Leu Gln Thr Ile Leu Tyr Ser 1 5 10 15

Val Phe Cys Leu Cys Leu His Val Ala Met Met Asp Arg Ser Pro Ser 20 25 30

Ser Ile Leu Ala Leu Trp Arg Ser Gly Ser Cys Ser Val Glu Ile $35\ \dot{}$ 40

<210> 2070

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2070

Met Leu Leu His Trp Leu Leu Gln Asn Glu Leu Gln Ser Ala Val Ala 1 5 10 15

Ser Cys Leu Val Ser Ile Ser Leu Gly Lys Glu Asp Phe Leu Gln Thr 20 25 30

Gly Cys Lys Val Lys Ser His Val Gly Val Ile His Arg Arg Glu Lys 35 40 45°

Gly Gly Ala Ile Tyr Leu Pro Asn Ser Leu Val Leu Pro Thr Ser His 50 55 60

Trp Ile Arg Leu Ser Tyr Arg Asn Arg His Arg Gly Phe Ile Leu Trp 65 70 . 75 80

Thr Leu Met Ser Thr Trp Glu Ala Arg Cys His Gly Pro Cys Val Met 85 90 95

Phe Asp Phe Asn Gln Lys 100

<210> 2071

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2071

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala 1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys 20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu . 35 40

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Val Arg Ala Ser 50 55 60

Cys Pro Gln Leu Arg Leu Gly Arg Val Ala Thr Arg Gly Leu Val Ala 65 70 75 80

Pro Gly Thr Gly Ala Gly Pro Val Trp Gly Val Gly Leu Glu Val Ala 85 90 95

Val Arg Val Leu Glu Lys Pro Arg Pro Pro Pro Pro Ala Pro Pro Arg 100 105 110

Pro Arg Arg Pro Pro Asn Gly Pro Phe Ser Arg Asp Leu Pro Gly Phe 115 120 .125

Arg Asp Pro Leu Gly Ala Pro Ser Ala Xaa Leu Val Ala Leu Gly Phe 130 135 140

<210> 2072

<211> 12

<212> PRT

. <213> Homo sapiens

<400> 2072

Met Gly Ser Ser Leu Ala Phe Ile Leu Phe Leu Pro 1 5 10

<210> 2073

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2073

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala
1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro 50 55 60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr 65 70 75 80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn 85 90 95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile
100 105 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn 115 120 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val 130 135 140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala 145 150 155 160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Glu
165 170 175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys 180 185 190

Arg Phe Phe Glu Val Arg Arg Val Val 195 200

<210> 2074

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2074

Met Leu Ser Ala Ser Ile Trp Leu Val Leu Ile Ile Ser Arg Gly Asn

1 5 10 15

Ala Arg Gln Lys Val Lys Leu Cys Phe Leu Leu Met Leu Leu Ala Thr 20 25 30

Trp Lys Arg Arg Arg Gly Arg Gly Lys Arg Gly Arg Ser 35 40 45

<210> 2075

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2075

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala 1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys 20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu 35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro 50 60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr 65 70 75 80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn 85 90 95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile 100 105 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn 115 120 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val 130 135 140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala 145 150 155 160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Glu
165 170 175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys 180 185 190

Arg Phe Phe Glu Val Arg Arg Val Val 195 200

<210> 2076

<211> 201

<212> PRT

<213> Homo sapiens

<400> 2076

Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala 1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys
20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu 35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro
50 55 60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr 65 70 75 80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn 85 90 95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile 100 105 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn 115 120 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val 130 135 140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala 145 150 155 160

Ile Asn Asp Asn Thr Asn Ser Arg Val Val Leu Trp Ser Phe Phe Glu 165 170 175

Ala Leu Val Leu Val Ala Met Thr Leu Gly Gln Ile Tyr Tyr Leu Lys 180 185 190

Arg Phe Phe Glu Val Arg Arg Val Val 195 200

<210>. 2077

<211> 587

<212> PRT

<213> Homo sapiens

<400> 2077

Met Trp Arg Leu Gly Cys Leu Ile Trp Glu Val Phe Asn Gly Pro Leu 1 5 10

Pro Arg Ala Ala Ala Leu Arg Asn Pro Gly Lys Ile Pro Lys Thr Leu 20 25 30

Val Pro His Tyr Cys Glu Leu Val Gly Ala Asn Pro Lys Val Arg Pro 35 40 45

Asn Pro Ala Arg Phe Leu Gln Asn Cys Arg Ala Pro Gly Gly Phe Met

50	•	55	•	60

Ser Asn Arg Phe Val Glu Thr Asn Leu Phe Leu Glu Glu Ile Gln Ile 65 70 75 80

Lys Glu Pro Ala Glu Lys Gln Lys Phe Phe Gln Glu Leu Ser Lys Ser 85 90 95

Leu Asp Ala Phe Pro Glu Asp Phe Cys Arg His Lys Val Leu Pro Gln
100 105 110

Leu Leu Thr Ala Phe Glu Phe Gly Asn Ala Gly Ala Val Val Leu Thr 115 120 125

Pro Leu Phe Lys Val Gly Lys Phe Leu Ser Ala Glu Glu Tyr Gln Gln 130 135 140

Lys Ile Ile Pro Val Val Val Lys Met Phe Ser Ser Thr Asp Arg Ala 145 150 155 160

Met Arg Ile Arg Leu Leu Gln Gln Met Glu Gln Phe Ile Gln Tyr Leu 165 170 175

Asp Glu Pro Thr Val Asn Thr Gln Ile Phe Pro His Val Val His Gly 180 185 190

Phe Leu Asp Thr Asn Pro Ala Ile Arg Glu Gln Thr Val Lys Ser Met 195 200 205

Leu Leu Leu Ala Pro Lys Leu Asn Glu Ala Asn Leu Asn Val Glu Leu 210 215 220

Met Lys His Phe Ala Arg Leu Gln Ala Lys Asp Glu Gln Gly Pro Ile 225 230 235 240

Arg Cys Asn Thr Thr Val Cys Leu Gly Lys Ile Gly Ser Tyr Leu Ser 245 250 255

Ala Ser Thr Arg His Arg Val Leu Thr Ser Ala Phe Ser Arg Ala Thr 260 265 270

Arg Asp Pro Phe Ala Pro Ser Arg Val Ala Gly Val Leu Gly Phe Ala 275 280 285

Ala Thr His Asn Leu Tyr Ser Met Asn Asp Cys Ala Gln Lys Ile Leu 290 295 300

Pro Val Leu Cys Gly Leu Thr Val Asp Pro Glu Lys Ser Val Arg Asp 305 310 315 320

- Gln Ala Phe Lys Ala Ile Arg Ser Phe Leu Ser Lys Leu Glu Ser Val

Ser Glu Asp Pro Thr Gln Leu Glu Glu Val Glu Lys Asp Val His Ala 340 345 350

Ala Ser Ser Pro Gly Met Gly Gly Ala Ala Ala Ser Trp Ala Gly Trp 355 360 365

Ala Val Thr Gly Val Ser Ser Leu Thr Ser Lys Leu Ile Arg Ser His

370 375 380

Pro Thr Thr Ala Pro Thr Glu Thr Asn Ile Pro Gln Arg Pro Thr Pro 385 390 395 400

Glu Gly His Trp Glu Thr Gln Glu Glu Asp Lys Asp Thr Ala Glu Asp 405 410 415

Ser Ser Thr Ala Asp Arg Trp Asp Asp Glu Asp Trp Gly Ser Leu Glu 420 425 430

Gln Glu Ala Glu Ser Val Leu Ala Gln Gln Asp Asp Trp Ser Thr Gly 435 440 445

Gly Gln Val Ser Arg Ala Ser Gln Val Ser Asn Ser Asp His Lys Ser 450 455 460

Ser Lys Ser Pro Glu Ser Asp Trp Ser Ser Trp Glu Ala Glu Gly Ser 465 470 475 480

Trp Glu Gln Gly Trp Gln Glu Pro Ser Ser Gln Glu Pro Pro Pro Asp 485 490 495

Gly Thr Arg Leu Ala Ser Glu Tyr Asn Trp Gly Gly Pro Glu Ser Ser 500 505 510

Asp Lys Gly Asp Pro Phe Ala Thr Leu Ser Ala Arg Pro Ser Thr Gln 515 520 525

Pro Arg Pro Asp Ser Trp Gly Glu Asp Asn Trp Glu Gly Leu Glu Thr 530 · 535 540

Asp Ser Arg Gln Val Lys Ala Glu Leu Ala Arg Lys Lys Arg Glu Glu 545 550 555 560

Arg Arg Glu Met Glu Ala Lys Arg Ala Glu Arg Lys Val Ala Lys 565 . 570 575 .

Gly Pro Met Lys Leu Gly Ala Arg Lys Leu Asp 580 585

<210> 2078

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2078

Met Arg Gln Val Ala Pro Ala Arg Arg Ala Gln Leu Glu His Ser Gly
1 5 10 15

Leu His Ala Ser Leu Cys Leu Leu Ser Leu Leu Ser Leu Leu Pro Thr 20 , 25 30

Leu Glu Ala Asn Met Ser Gly Phe His Gln Ala Pro Leu Thr Leu Leu
35 40

Pro Ser Cys Thr Gln Gly Asp Gly Glu Ala Arg Gly His His Thr Gln 50 55 60

Pro Ser Phe Trp Arg Thr Glu Met Lys Cys Pro Val Glu Ala Leu Leu 65 70 75 80

Glu His Leu Ala Thr Arg Ala Val Val Gly Arg Asn Gly Asp His Gly 85 90 95

Ala Gln Gln Glu His Arg Thr Ala Ser Glu Gly Gln Gln Gln Pro Leu 100 105 110

Ala Glu Ser Ser Pro Trp Trp Gln Pro Pro His Gly
115 120

<210> 2079

<211> 74

<212> PRT

<213> Homo sapiens

<400> 2079

Met Ala Leu Phe Ala Trp Leu Cys Leu Ser Ala Val Val Glu Ser Ser 1 5 10

Ser Pro Gly Met Cys Met Ser Lys Cys Val Leu Ile Val Met Pro Arg 20 25 30

Gln Lys Pro Leu Glu Asp Cys Cys Arg His Ala Leu Lys Met Thr Ser
35 40 45

His Ser Ser Glu Lys Leu Gly Asp Leu Thr Pro Glu Gly Leu Lys Ser 50 55 60

Glu Lys Ser Gln Glu His Leu Gly Phe Lys 65 70

<210> 2080

<211> 76

<212> PRT

<213> Homo sapiens

<400> 2080

Met Val Val Asp Leu Phe Phe Tyr Leu Leu Cys Ile Phe Leu Val Leu

1 5 10 15

Trp Val Leu Glu Ala Met Ile Lys His Leu Met Tyr Ser Asp Met Ser 20 25 30

Ala Leu Ile Ala Ser Phe Ser Ser Phe Leu Asn Cys Ile His Tyr Phe 35 40 45

Gln Asn Arg Tyr Arg Tyr Ser Val Pro Pro Phe Glu Leu Leu Ala Cys 50 60

Ser Cys Phe Pro Leu Ser Pro Lys Gln Gly Phe Phe 65 70 75

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<210> 2081
  <211> 146
  .<212> PRT
  <213> Homo sapiens
  <400> 2081
  Met Ala Ala Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu
                  5 ·
                                    10
  Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Ala
  Thr Ala Ala Arg Gly Ala Leu Glu Lys Ala Ser Gly Gln Arg Arg Glu
                            40 45
  Pro Glu Met Gln Arg Pro Glu Ala Ala Arg Ser Leu Pro Glu Gly Thr
  Val Pro Pro Glu Val Glu Glu Pro Pro Pro Leu Cys His Leu Glu Gln
                                      75 -
  Leu Trp Arg Cys Ser Ser Pro Leu Ala Gln Ser Phe Cys-Gly Ser Gly
  Ser Gly Trp Pro Arg Pro Ala Cys Ala Leu Pro Leu Cys Pro Pro
                              105
                                       . 110
  Cys Ala Gly Ala Pro Cys Cys Thr Ala Ser Ala Ala Ala Ala Arg Ala
                           120 . ' 125
  Arg Trp Cys Trp Arg Gln Ser Phe Trp Ser Pro Trp Ser Arg Thr Cys
                135 . . . 140
  Pro Pro
. 145
 <210> 2082
 <211> 30
  <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 2082
 Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met
 Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln
                                25
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<210> 2083 <211> 56

<212> PRT

<213> Homo sapiens

<400> 2083

Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met 1 5 10 15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Ala His Thr Val Ser 20 25 30

Thr Val His Trp Arg Lys Trp Thr Lys Met Leu Val Gln Ser Pro Thr 35 40 45

Gln Val Lys Met Asn Val Ser Gln 50 . 55

<210> 2084'

<211> 563

<212> PRT

<213> Homo sapiens

<400> 2084

Met Gly Ser Leu Ser Asn Tyr Ala Leu Leu Gln Leu Thr Leu Thr Ala

1 5 10 15

Phe Leu Thr Ile Leu Val Gln Pro Gln His Leu Leu Ala Pro Val Phe 20 25 30

Arg Thr Leu Ser Ile Leu Thr Asn Gln Ser Asn Cys Trp Leu Cys Glu 35 40 45

His Leu Asp Asn Ala Glu Gln Pro Glu Leu Val Phe Val Pro Ala Ser 50 60

Ala Ser Thr Trp Trp Thr Tyr Ser Gly Gln Trp Met Tyr Glu Arg Val 65 70 75 80

Trp Tyr Pro Gln Ala Glu Val Gln Asn His Ser Thr Ser Ser Tyr Arg 85 90 95

Lys Val Thr Trp His Trp Glu Ala Ser Met Glu Ala Gln Gly Leu Ser 100 105 110

Phe Ala Gln Val Arg Leu Leu Glu Gly Asn Phe Ser Leu Cys Val Glu 115 120 125

Asn Lys Asn Gly Ser Gly Pro Phe Leu Gly Asn Ile Pro Lys Gln Tyr 130 135 140

Cys Asn Gln Ile Leu Trp Phe Asp Ser Thr Asp Gly Thr Phe Met Pro 145 150 155 160

Ser Ile Asp Val Thr Asn Glu Ser Arg Asn Asp Asp Asp Pro Ser 165 170 175

Val Cys Leu Gly Thr Arg Gln Cys Ser Trp Phe Ala Gly Cys Thr Asn 180 185 190

Arg Thr Trp Asn Ser Ser Ala Val Pro Leu Ile Gly Leu Pro Asn Thr Gln Asp Tyr Lys Trp Val Asp Arg Asn Ser Gly Leu Thr Trp Ser Gly 215 Asn Asp Thr Cys Leu Tyr Ser Cys Gln Asn Gln Thr Lys Gly Leu Leu 230 · Tyr Gln Leu Phe Arg Asn Leu Phe Cys Ser Tyr Gly Leu Thr Glu Ala 245 250 His Gly Lys Trp Arg Cys Ala Asp Ala Ser Ile Thr Asn Asp Lys Gly 265 His Asp Gly His Arg Thr Pro Thr Trp Trp Leu Thr Gly Ser Asn Leu Thr Leu Ser Val Asn Asn Ser Gly Leu Phe Phe Leu Cys Gly Asn Gly 295 Val Tyr Lys Gly Phe Pro Pro Lys Trp Ser Gly Arg Cys Gly Leu Gly Tyr Leu Val Pro Ser Leu Thr Arg Tyr Leu Thr Leu Asn Ala Ser Gln Ile Thr Asn Leu Arg Ser Phe Ile His Lys Val Thr Pro His Arg Cys 340 345 Thr Gln Gly Asp Thr Asp Asn Pro Pro Leu Tyr Cys Asn Pro Lys Asp 355 . 360 . Asn Ser Thr Ile Arg Ala Leu Phe Pro Ser Leu Gly Thr Tyr Asp Leu 375 Glu Lys Ala Ile Leu Asn Ile Ser Lys Ala Met Glu Gln Glu Phe Ser Ala Thr Lys Gln Thr Leu Glu Ala His Gln Ser Lys Val Ser Ser Leu 405 410 Ala Ser Ala Ser Arg Lys Asp His Val Leu Asp Ile Pro Thr Thr Gln Arg Gln Thr Ala Cys Gly Thr Val Gly Lys Gln Cys Cys Leu Tyr Ile 440 Asn Tyr Ser Glu Glu Ile Lys Ser Asn Ile Gln Arg Leu His Glu Ala 455 460 Ser Glu Asn Leu Lys Asn Val Pro Leu Leu Asp Trp Gln Gly Ile Phe Ala Lys Val Gly Asp Trp Phe Arg Ser Trp Gly Tyr Val Leu Leu Ile 485 · Val Leu Phe Cys Leu Phe Ile Phe Val Leu Ile Tyr Val Arg Val Phe 505 510

Arg Lys Ser Arg Arg Ser Leu Asn Ser Gln Pro Leu Asn Leu 515 520 525

Ser Pro Gln Gln Ser Ala Gln Leu Leu Val Ser Glu Thr Ser Cys Gln 530 540

Val Ser Asn Arg Ala Met Lys Gly Leu Thr Thr His Gln Tyr Asp Thr 545 550 555 560

Ser Leu Leu

<210> 2085

<211> 599

<212> PRT

<213> Homo sapiens

<400> 2085

Met Glu Leu Leu Gly Pro Val Pro Pro Glu Gln Gln Phe Ile Asn Gln
1 5 10 15

Lys Met Arg Pro Gly Ser Gly Met Leu Ser Ile Arg Val Ile Pro Asp 20 25 30

Gly Pro Thr Arg Ala Leu Gln Ile Thr Asp Phe Cys His Arg Lys Ser 35 40 45

Ser Arg Ser Tyr Glu Val Asp Glu Leu Pro Val Thr Glu Glu Leu 50 55 60

Gln Lys Leu Lys Asn Pro Asp Thr Glu Gln Glu Leu Glu Val Leu Val 65 70 75 80

Arg Leu Glu Gly Gly Ile Gly Leu Ser Leu Ile Asn Lys Val Pro Glu 85 90 95

Glu Leu Val Phe Ala Ser Leu Thr Gly Ile Asn Val His Tyr Thr Gln
100 · 105 110

Leu Ala Thr Ser His Met Leu Glu Leu Ser Ile Gln Asp Val Gln Val 115 120 125

Asp Asn Gln Leu Ile Gly Thr Thr Gln Pro Phe Met Leu Tyr Val Thr 130 135 140 .

Pro Leu Ser Asn Glu Asn Glu Val Ile Glu Thr Gly Pro Ala Val Gln 145 150 155 160

Val Asn Ala Val Lys Phe Pro Ser Lys Ser Ala Leu Thr Asn Ile Tyr 165 170 175

Lys His Leu Met Ile Thr Ala Gln Arg Phe Thr Val Gln Ile Glu Glu \cdot 180 185 190

Lys Leu Leu Lys Leu Ser Phe Phe Gly Tyr Asp Gln Ala Glu 195 200 205

Ser Glu Val Glu Lys Tyr Asp Glu Asn Leu His Glu Lys Thr Ala Glu

		210		•			215					220				
	Gln 225	Gly	Gly	Thr	Pro	Ile 230	Arg	Tyr	Tyr	Phe	Glu 235	Asn	Leu	Lys	Ile	Ser 240
	Ile	Pro	Gln	Ile	Lys 245	Leu	Ser	Val	Phe	Thr 250	Ser	Asn	Lys	·Leu	Pro 255	Leu
	Asp	Leu	Lys	Ala 260	Leu	Lys	Ser	Thr	Leu 265	Gly	Phe	Pro	Leu	Ile 270	Arg	Phe
	Glu	Asp	Ala 275	Val	Ile	Asn	Leu	Asp 280	Pro	Phe	Thr	Arg	Val 285	His	Pro	Tyr
	Glu	Thr 290	Lys	Glu	Phe	Ile	Ile 295	Asn	Asp	Ile	Leu	Lys 300	His	Phe	Gln	Glu
	Glu 305	Leu	Leu	Ser	Gln	Ala 310	Ala	Arg	Ile	Leu	Gly 315	Ser	Val	Asp	Phe	Leu 320
	Gly	Asn	Pro	Met	Gly 325	Leu	Leu	Asn	Asp	Val 330	Ser	Glu	Gly	Val	Thr 335	Gly
	Leu	Ile	Lys	Tyr 340	Gly	Asn	Val	Gly	Gly 345	Leu	Ile 	Arg	Asn	Val 350	Thr	His
•	Gly	Val	Ser 355	Asn	Ser	Ala	Gly	Lys 360	Phe	Ala	Gly	Thr '	Leu 365	Ser	Asp	Gly
	Leu	Gly 370	Lys	Thr	Met	Asp	Asn 375	Arg	His	Gln	Ser	Glu 380	Arg	Glu	Tyr	Ile
	Arg 385	Tyr	His	Ala	Ala	Thr 390	Ser	Gly	Glu	His	Leu 395.	Val	Ala	Gly	Ile	His 400
	Gly	Leu	Ala	His	Gly 405	Ile	Ile	Gly	Gly	Leu 410	Thr	Ser	Val	Ile	Thr 415	Ser
	Thr	Val	Glu	Gly 420	Val	Lys	Thr	Glu	Gly 425	Gly	Val	Ser	Gly	Phe 430	Ile	Ser
	Gly		Gly 435		Gly	Leu	Val	Gly 440	Thr	Val	Thr	Lys	Pro 445	Val	Ala	Gly
		Leu 450	qaA	Phe	Ala	Ser	G1u 455	Thr	Ala	Gln	Ala	Val 460	Arg	Asp	Thr	Ala
	Thr 465	Leu	Ser	Gly	Pro	Arg 470	Thr	Gln	Ala	Gln	Arg 475	Val	Arg	Lys	Pro	Arg 480
	Cys	Cys	Thr	Gly	Pro 485	Gln	Gly	Leu	Leu	Pro 490	Arg	Tyr	Ser	Glu	Ser 495	Gln
	Ala	Glu	Gly	Gln 500	Glu	Gln	Leu	Phe	Lys 505	Leu	Thr	Asp	Asn	Ile 510	Gln	Asp
-	Glu	Phe	Phe	Ile	Ala	Val	Glu	Asn	Ile	Asp	Ser	Tyr	Cys	Val	Leu	Ile

Ser Ser Lys Ala Val Tyr Phe Leu Lys Ser Gly Asp Tyr Val Asp Arg

530 535 540

Glu Ala Ile Phe Leu Glu Val Lys Tyr Asp Asp Leu Leu Pro Leu Pro 545 550 555 560

Cys Leu Gln Arg Pro Trp Glu Gly Val Cys Ala Gly Asp Gln Glu Ser 565 570 575

Arg Glu His Glu Gln Trp Ser Val His Pro Arg Pro Leu Pro Pro Glu 580 . 585 590

Ala His Gly Pro Cys Glu Ile

<210> 2086

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2086

Met Ala Pro Leu Leu Pro Ser Leu Pro Leu His Leu His Thr Ser Leu

1 5 10 15

Cys Leu Arg Leu Cys Leu Ser Leu Ser Leu Ser Ala Trp Leu Ser Trp 20 25 30

Ser Leu Pro Leu Cys Val Ser Leu Ser Ala Ser Tyr Pro Ala Trp Arg 35 40 45

Leu Pro Gln Leu His Gly Arg Ser Arg Glu Gln Arg Tyr Thr Lys
50 55 60

Leu Ala Asp Trp Gln Tyr Ile Glu Glu Cys Val Gln Ala Ala Ser Pro 65 70 75 80

Met Pro Leu Phe Gly Asn Gly Asp Ile Leu Ser Phe Glu Asp Ala Asn 85 90 95

Arg Ala Met Gln Thr Gly Val Thr Gly Ile Met Ile Ala Arg Gly Ala
100 105 110

Leu Leu Lys Pro Trp Leu Phe Thr Glu Ile Lys Glu Gln Arg His Trp 115 120 125

Asp Ile Ser Ser Ser Glu Arg Leu Asp Ile Leu Arg Asp Phe Thr Asn 130 135 140

Tyr Gly Leu Glu His Trp Gly Ser Asp Thr Gln Gly Val Glu Lys Thr 145 150 155 160

Arg Arg Phe Leu Leu Glu Trp Leu Ser Phe Leu Cys Arg Tyr Val Pro 165 170 175

Val Gly Leu Leu Glu Arg Leu Pro Gln Arg Ile Asn Glu Arg Pro Pro 180 185 190

Tyr Tyr Leu Gly Arg Asp Tyr Leu Glu Thr Leu Met Ala Ser Gln Lys 195 200 205

Ala Ala Asp Trp Ile Arg Ile Ser Glu Met Leu Leu Gly Pro Val Pro 210 215 220

Pro Ser Phe Ala Phe Leu Pro Lys His Lys Ala Asn Ala Tyr Lys 225 230 235

<210> 2087

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2087

Met Ala Gln Tyr Ile Leu Val Ile Ile Leu Ile Ser Phe Cys Ser Asp 1 . 5 10 15

Ser Leu Ser Gly Arg Ala Gln Asn Gly Thr Glu Ile Asn Gln Thr Val 20 25 30

Ile Leu Ile Cys Ser Leu Arg Phe Phe Lys Ser Glu Ala Ile Asp Ala 35 40 45

Cys Leu Met His Pro His Thr Ala Cys Leu Thr Gly Asp Ala Thr Leu $50 \hspace{1cm} 55 \hspace{1cm} 60$

Leu Ser Ser Ser Ala Met Lys His Lys Arg Gln Arg Lys Ser Arg Tyr 65 70 75 80

Thr Ser His Arg Glu His Phe Arg Val Pro Gln Arg Trp Trp Gln Glu 85 90 95

Ala His Ser Arg Val Ser Ile Arg Val Cys Val Trp Val Ser Gly Ile 100 105 110

Ser Val Ala Pro Ile Phe Leu His Cys Ser Glu His Pro Val Leu 115 120 125

<210> 2088

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2088

Met Lys Met Met Val Val Leu Leu Met Leu Ser Ser Leu Ser Arg, Leu 1. 5 · 10 15

Leu Gly Leu Met Arg Pro Ser Ser Leu Arg Gln Tyr Leu Asp Ser Val 20 25 30

Pro Leu Pro Pro Cys Gl
n Glu Gl
n Gln Pro Lys Ala Ser Ala Glu Leu 35 40 45

Asp His Lys Ala Cys Tyr Leu Cys His Ser Leu Leu Met Leu Ala Gly 50 55 60

Val Val Val Ser Cys Gln Asp Ile Thr Pro Asp Gln Trp Gly Glu Leu

65 70 75 80

Gln Leu Cys Met Gln Leu Asp Arg His Ile Ser Thr Gln Ile Arg 85 90 95

Glu Ser Pro Gln Ala Met His Arg Thr Met Leu Lys Asp Leu Ala Thr 100 105 110

Gln Thr Tyr Ile Arg Trp Gln Glu Leu Leu Thr His Cys Gln Pro Gln 115 120 125

Ala Gln Tyr Phe Ser Pro Trp Lys Asp Ile 130 135

<210> 2089

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2089

Met Glu Ile Tyr Leu Ser Leu Gly Val Leu Ala Leu Gly Thr Leu Ser 1 5 10 15

Leu Leu Ala Val Thr Ser Leu Pro Ser Ile Ala Asn Ser Leu Asn Trp
20 25 30

Arg Glu Phe Ser Phe Val Gln Ser Ser Leu Gly Phe Val Ala Leu Val
35 40 45

Leu Ser Thr Leu His Thr Leu Thr Tyr Gly Trp Thr Arg Ala Phe Glu 50 55 60

Glu Ser Arg Tyr Lys Phe Tyr Leu Pro Pro Thr Phe Thr Leu Thr Leu 65 70 75 80

Leu Val Pro Cys Val Val Ile Leu Ala Lys Ala Leu Phe Leu Leu Pro 85 90 95

Cys Ile Ser Arg Arg Leu Ala Arg Ile Arg Arg Gly Trp Glu Arg Glu 100 105 110

Ser Thr Ile Lys Phe Thr Leu Pro Thr Asp His Ala Leu Ala Glu Lys 115 120 125

Thr Ser His. Val

<210> 2090

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly
Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu
Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val
Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly
Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr
Ser Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val
Glu Asp Leu His His Tyr Arg Asn Leu Ser Xaa Phe Xaa Arg Arg Lys
                            105
Leu Lys Ala Xaa Gly Pro Ala Cys Leu Trp Pro Ala Gln Arg Asp
                            120
<210> 2091
<211> 89
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2091
Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly
Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu
            20
Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val
```

Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly

Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr
65 70 75 80

Ser Leu Tyr Ile Trp Thr Xaa Gly Gly 85

<210> 2092

<211> 90

<212> PRT

<213> Homo sapiens

<400> 2092

Met Asp Trp Ala Val Leu Thr Val Val Leu Gly Pro Cys Val Pro Gly

1 10 15

Leu Ser Gly Ser Pro Pro Trp Pro Leu Pro Ser Ser His Leu Leu Glu 20 25 30

Ala Lys Leu Cys Glu Thr Trp His Ser Phe Gln Thr Ser Val Pro Pro 35 40 45

Arg Pro Cys Ala Gly Val Thr Pro Glu Leu Arg Met Ser Ala Arg Ser 50 60

Arg Gln Tyr Arg Glu Gly Thr Gln Arg Lys Ala Ser Gln Leu Ser Lys 65 70 75 80

Asp Arg Asp Arg Leu Trp Ser Gly Arg Ala 85 90

<210> 2093

<211> 110

<212> PRT-

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2093

Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu 1 5 10 ... 15

Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala 20 25 30

Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly
35 40 45

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser 50 60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val 65 70 · 75 80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Val Leu His Arg Phe Leu 85 90 95

Arg Xaa Gly Xaa Gly Leu Leu Gly Ser Trp Thr Gly Leu Glu
100 105 110

<210> 2094

<211> 374

<212> PRT

<213> Homo sapiens

<400> 2094

Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu 1 5 10

Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala 20 25 30

Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly 35 40 45

Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser 50 60

Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val 65 70 75 80

Pro Gly Glu Arg Gln Leu Ala His Ser Lys Met Val Pro Ile Pro Ala 85 90 95

Gly Val Phe Thr Met Gly Thr Asp Asp Pro Gln Ile Lys Gln Asp Gly 100 105 110

Glu Ala Pro Ala Arg Arg Val Thr Ile Asp Ala Phe Tyr Met Asp Ala 115 120 125 .

Tyr Glu Val Ser Asn Thr Glu Phe Glu Lys Phe Val Asn Ser Thr Gly 130 135 140

Tyr Leu Thr Glu Ala Glu Lys Phe Gly Asp Ser Phe Val Phe Glu Gly 145 150 155 160

Met Leu Ser Glu Gln Val Lys Thr Asn Ile Gln Gln Ala Val Ala Ala 165 170 175

Ala Pro Trp Trp Leu Pro Val Lys Gly Ala Asn Trp Arg His Pro Glu 180 185 190

Gly Pro Asp Ser Thr Ile Leu His Arg Pro Asp His Pro Val Leu His
195 200 205

Val Ser Trp Asn Asp Ala Val Ala Tyr Cys Thr Trp Ala Gly Lys Arg

210 215 220

Leu Pro Thr Glu Ala Glu Trp Glu Tyr Ser Cys Arg Gly Gly Leu His 225 230 235 240

Asn Arg Leu Phe Pro Trp Gly Asn Lys Leu Gln Pro Lys Gly Gln His 245 250 255

Tyr Ala Asn Ile Trp Gln Gly Glu Phe Pro Val Thr Asn Thr Gly Glu 260 265 270

Asp Gly Phe Gln Gly Thr Ala Pro Val Asp Ala Phe Pro Pro Asn Gly 275 280 285

Tyr Gly Leu Tyr Asn Ile Val Gly Asn Ala Trp Glu Trp Thr Ser Asp 290 295 300

Trp Trp Thr Val His His Ser Val Glu Glu Thr Leu Asn Pro Lys Gly 305 310 315

Pro Pro Ser Gly Lys Asp Arg Val Lys Lys Gly Gly Ser Tyr Met Cys 325 330 335

His Arg Ser Tyr Cys Tyr Arg Tyr Arg Cys Ala Ala Arg Ser Gln Asn 340 345 350

Thr Pro Asp Ser Ser Ala Ser Asn Leu Gly Phe Arg Cys Ala Ala Asp 355 360 365

Arg Leu Pro Thr Met Asp 370

<210> 2095

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2095

Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser 1 5 10 15

Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys 20 25 30

Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Asn Arg Thr Ala Asn 50

<210> 2096

<211> 215

<212> PRT

'<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2096

Met Leu Pro Trp Thr Ala Xaa Gly Leu Ala Leu Ser Leu Arg Leu Ala 1 5 10 15

Leu Ala Arg Ser Gly Ala Glu Arg Gly Pro Pro Ala Ser Ala Pro Arg
20 . 25 . 30

Gly Asp Leu Met Phe Leu Leu Asp Ser Ser Ala Ser Val Ser His Tyr 35 40 45

Glu Phe Ser Arg Val Arg Glu Phe Val Gly Gln Leu Val Ala Pro Leu
50 60

Pro Leu Gly Thr Gly Ala Leu Arg Ala Ser Leu Val His Val Gly Ser 65 70 75 80

Arg Pro Tyr Thr Glu Phe Pro Phe Gly Gln His Ser Ser Gly Glu Ala 85 90 95

Ala Gln Asp Ala Val Arg Ala Ser Ala Gln Arg Met Gly Asp Thr His
100 105 110

Thr Gly Leu Ala Leu Val Tyr Ala Lys Glu Gln Leu Phe Ala Glu Ala 115 120 125

Ser Gly Ala Arg Pro Gly Val Pro Lys Val Leu Val Trp Val Thr Asp 130 135 140

Gly Gly Ser Ser Asp Pro Val Gly Pro Pro Met Gln Glu Leu Lys Asp 145 150 155 160

Leu Gly Val Thr Val Phe Ile Val Ser Thr Gly Arg Gly Asn Phe Leu 165 170 175

Glu Leu Ser Ala Ala Ala Ser Ala Pro Ala Glu Lys His Leu His Phe 180 185 190

Val Asp Val Asp Asp Leu His Ile Ile Val Gln Glu Leu Arg Gly Ser 195 200 205

Ile Leu Asp Ala Met Arg Pro 210 215

<210> 2097

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2097

Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro

1 5 10 15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe 20 25 30

Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro 35 40

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His 50 60

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly 65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser 85 90 95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val · 100 105 110

Ile Ile Ser Asp Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg
115 . 120 125

<210> 2098

<211> 188

<212> PRT

<213> Homo sapiens

<400> 2098

Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro 1 5 10 15

Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe 20 25 30

Gln Val Leu Ser Pro Gly Asp Tle Arg Tyr Ile Phe Thr Ala Thr Pro 35 40

Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His 50 55

Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly 65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser . 85 90 95

Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
100 105 110

Ile Ile Ser Asp Asn Ala Val Asp Asn Asp Ser Phe Tyr Val Glu Met 115 . 120 125

Ile Gln Asp Ser Thr Gln Arg Thr Ala Asp Ile Pro Ala Leu Phe Leu 130 135 140

Leu Gly Arg Asp Gly Tyr Met Ile Arg Arg Ser Leu Glu Gln His Gly 145 150 155 160

Leu Pro Trp Ala Ile Ile Ser Ile Pro Val Asn Val Thr Ser Ile Pro 165 170 175 .

Thr Phe Glu Leu Leu Gln Pro Pro Trp Thr Phe Trp 180 185

<210> 2099

<211> 72

<212> PRT

<213> Homo sapiens

<400> 2099

Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe 1 5 10 15

Leu Ser Val Thr Leu Tyr His Arg Val His His Gln Thr Phe Phe Ala 20 25 30

Gly Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile Cys 35 40 45

Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile Pro 50 55 60

Val Leu Arg Tyr Ala Ser Ile Glu 65 70

<210> 2100

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2100

Met Ala Tyr Leu Thr Leu Phe Gln Met Gly Ser Trp Met Ser Phe Ser $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Leu Ser Leu Cys Ser Leu Leu Phe Ile Leu Thr Gly His Cys Leu Ser 20 25 30

Glu Asn Phe Tyr Val Arg Gly Asp Gly Thr Arg Ala Tyr Phe Phe Thr 35 40

Lys Gly Glu Val His Ser Met Phe Cys Lys Ala Ser Leu Asp Glu Lys 50 60

Gln Asn Leu Val Asp Arg Arg Leu Gln Val Asn Arg Lys Lys Gln Val 65 70 . 75 80

Lys Met His Arg Val Trp Ile Gln Gly Lys Phe Gln Lys Pro Leu His 85 $$ 90 95

Gln Thr Gln Asn Ser Ser Asn Met Val Ser Thr Leu Leu Ser Gln Asp 100 105 110

<210> 2101

<211> 80

<212> PRT

<213> Homo sapiens

<400> 2101

Met Gly Trp Ile Asp Leu Leu Leu Pro Glu Leu Gly Ala Leu Arg Val 1 5 10 15

Phe Leu His Leu Phe Leu Val Ala Leu Arg Thr Lys Arg Trp Ile Phe 20 25 30

Arg Thr Leu Gly Gln Leu Thr Cys Val Asn Ile Leu Gly Asp Ser Arg 35 40

Lys Lys Arg Glu Cys Arg Leu Asn Lys Arg Gln Leu Gln Phe Gly Glu 50 60

Lys Thr Leu Gln Val Pro Glu Arg Leu Val Val Arg His Ser Pro Phe 65 70 75 80

<210> 2102

<211> 49

. <212> PRT

<213> Homo sapiens

<400> 2102

Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val Trp Asn Ser Leu 1 5 10 15

Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg Phe Ser Leu Cys 20 25 30

Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp Val Arg Thr Ser 35 40 45

Ile

<210> 2103

<211> 179.

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2103

Met Ala Gln Val Leu Ala Ser Glu Leu Ser Leu Val Ala Phe Ile Leu 1 5 10 15

Leu Leu Val Met Ala Phe Ser Lys Lys Trp Leu Asp Leu Ser Arg Ser
20 25 30

Leu Phe Tyr Gln Arg Trp Pro Val Asp Val Ser Asn Arg Ile His Thr 35 40 45

Ser Ala His Val Met Ser Met Gly Leu Leu His Phe Cys Lys Ser Arg
50 60

Ser Cys Ser Asp Leu Glu Asn Gly Lys Val Thr Phe Ile Phe Ser Thr 65 70 75 80

Leu Met Leu Phe Pro Ile Asn Ile Trp Ile Phe Glu Leu Glu Arg Asn 85 90 95

Val Ser Ile Pro Ile Gly Trp Ser Tyr Phe Ile Gly Trp Leu Val Leu 100 105 110

Ile Leu Tyr Phe Thr Cys Ala Ile Leu Cys Tyr Phe Asn His Lys Ser 115 120 125

Phe Trp Ser Leu Ile Leu Ser His Pro Ser Gly Ala Val Ser Xaa Ser 130 135 140

Ser Ser Phe Gly Ser Val Glu Glu Ser Pro Arg Ala Gln Thr Ile Thr 145 150 155 160

Asp Thr Pro Ile Thr Gln Glu Gly Val Leu Asp Pro Glu Gln Lys Asp 165 170 . 175

Thr His Val

<210> 2104

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2104

. Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro 1 5 10 15

Ile Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro 20 25 30

Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln 35 40

Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp
50 55 60

Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr 65 70 75 80

Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu 85 90 95

Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro

. 100 105 110

Asn Ile Gln Leu Cys Phe Met Leu Thr His 115 120

<210> 2105

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2105

Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro 1 5 10 15.

Ile Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro
20 25 30

Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln 35 40

Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp 50 55 60

Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr 65 70 75 80

Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu 85 90 95

Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro
100 105 110

Asn Ile Gln Leu Cys Phe Met Leu Thr His

<210> 2106

<211> 459

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (345)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2106

Met Gly Gly Pro Arg Ala Trp Ala Leu Leu Cys Leu Gly Leu Leu Leu 1 5 10 15

Pro Gly Gly Gly Ala Ala Trp Ser Ile Gly Ala Ala Pro Phe Ser Gly 20 25 30

Arg	Arg	Asn 35	Ттр	Cys	Ser	Tyr	Val 40	Val	Thr	Arg	Thr	11e 45	Ser	Cys	His
Val	Gln 50	Asn	Gly	Thr	Tyr	Leu 55	Gln	Arg	Val	Leu	Gln 60	Asn	Cys	Pro	Trp
Pro 65	Met	Ser	Cys	Pro	Gly 70	Ser	Ser	Tyr	Arg	Thr 75	Val	Val	Arg	Ътo	Thr 80
Tyr	Lys	Val	Met	Tyr 85	Lys	Ile	Val	Thr	Ala 90	Arg	Glu	Trp	Arg	Cys 95	Cys
Pro	Gly	His	Ser 100	Gly	Val	Ser	Cys	Glu 105	Glu	Val	Ala	Ala	Ser 110	Ser	Ala
Ser	Leu	Glu 115	Pro	Met	Trp	Ser	Gly 120	Ser	Thr	Met	Arg	Arg 125	Met	Ala	Leu
Arg	Pro 130	Thr	Ala	Phe	Ser	Gly 135	_	Leu	Asn	Cys	Ser 140	Lys	Val	Ser	Glu
Leu 145		Glu	Arg	Leu	Lys 150	Val	Leu	G1u	Ala	Lys 155	Met	Thr	Met	Leu	Thr 160
Val	Ile	Glu	Gln	Pro 165	Val	Pro	Pro	Thr	Pro 170	Ala	Thr	Pro	Glu	Asp 175	Pro
Ala	Pro	Leu	Trp 180	Gly	Pro	Pro	Pro	Ala 185	Gln	Gly	Ser	Pro	Gly 190	Asp	Gly
Gly	Leu	Gln 195	Asp	Gln	Val	Gly	Ala 200	Trp	Gly	Leu	Pro	Gly 205	Pro	Thr	Gly
Pro	Lys 210	Gly	Asp	Ala	Gly	Ser 215	Arg	Gly	Pro	Met	Gly 220	Met	Arg	Gly	Pro
Pro 225	Gly	Pro	Gln	Gly	Pro 230	Pro	Gly	Ser	Pro	Gly 235	Arg	Ala	Gly	Ala	Val- 240
Gly	Thr	Pro	Gly	G1u 245	Arģ	Gly	Pro	Pro	Gly 250	Pro	Pro	Gly	Pro	Pro 255	Gly
Pro	Pro	Gly	Pro 260	Pro	Ala	Pro	Val	Gly 265	Pro	Pro	His	Ala	Arg 270	Ile	Ser
Gln	His	Gly 275	Asp	Pro	Leu	Leu	Ser 280	Asn	Thr	Phe	Thr	Glu 285	Thr	Asn	Asn
His	Trp 290	Pro	Gln	Gly	Pro	Thr 295	Gly	Pro	Pro	Gly	Pro 300	Pro	Gly	Pro	Met
Gly 305	Pro	Pro	Gly	Pro	Pro 310	Gly	Pro	Thr	Gly	Val 315	Pro	Gly	Ser	Pro	Gly 320
Xaa	Île	Gly	Pro	Pro 325	Gly	Pro	Thr	Gly	Pro 330	Lys	Gly	Ile	Ser	Gly 335	His
Pro	Gly	Glu	Lys 340	Gly	Glu	Lys	Lys	Xaa 345	Leu	Arg	Gly	Glu	Pro 350	Gly	Pro

Gln Gly Ser Ala Gly Gln Arg Gly Glu Pro Gly Pro Lys Gly Asp Pro 355 360 365

Gly Glu Lys Ser His Trp Asn Gln Ser Trp Gly Leu Gly Gly Pro Cys 370 380

Arg His Arg His Pro Gln Pro Pro Ser Gly Gln Glu Gly Gly His Ala 385 390 395 400

Thr Asn Tyr Arg Asp Arg Gly Pro Gln Glu Pro Gly Arg Glu Arg Leu
405 410 415

Arg Val Val Ala Ala Pro Glu Ala Asp Gln Ala Arg Leu Pro Leu Leu 420 425 430

Pro Gly Leu Gly Gln Leu Pro Pro Gly Thr Ala Arg Pro Tyr Leu Leu 435 440 445

Met Ser Ser Gly Ser Leu Leu Pro Ser Arg Pro 450 455

<210> 2107 .

<211> 615

<212> PRT

<213> Homo sapiens

<400> 2107

Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys Gly Leu Leu Phe 1 5 10 15

Tyr Ile Asn Leu Ala Asp His Trp Lys Ala Leu Ala Phe Arg Leu Glu 20 25 30

Glu Glu Gln Lys Met Arg Pro Glu Ile Ala Gly Leu Lys Pro Ala Asn 35 40

Leu Pro Glu Ile Ser Ser Gln Lys Thr Gln Arg His Ile Gln Arg Gly 65 70 75 80

Pro Pro His Leu Gln Ile Arg Pro Pro Ser Gln Asp Leu Lys Asp Gly 85 90 95

Thr Gln Glu Glu Ala Thr Lys Arg Gln Glu Ala Pro Val Asp Pro Arg
100 105 110

Pro Glu Gly Asp Pro Gln Arg Thr Val Ile Ser Trp Arg Gly Ala Val 115 120 - 125

Ile Glu Pro Glu Gln Gly Thr Glu Leu Pro Ser Arg Arg Ala Glu Val 130 135 140

Pro Thr Lys Pro Pro Leu Pro Pro Ala Arg Thr Gln Gly Thr Pro Val 145 150 .155 160

His Leu Asn Tyr Arg Gln Lys Gly Val Ile Asp Val Phe Leu His Ala Trp Lys Gly Tyr Arg Lys Phe Ala Trp Gly His Asp Glu Leu Lys Pro 1.85 . Val Ser Arg Ser Phe Ser Glu Trp Phe Gly Leu Gly Leu Thr Leu Ile Asp Ala Leu Asp Thr Met Trp Ile Leu Gly Leu Arg Lys Glu Phe Glu Glu Ala Arg Lys Trp Val Ser Lys Leu His Phe Glu Lys Asp Val 230 235 Asp Val Asn Leu Phe Glu Ser Thr Ile Arg Ile Leu Gly Gly Leu Leu Ser Ala Tyr His Leu Ser Gly Asp Ser Leu Phe Leu Arg Lys Ala Glu 265 Asp Phe Gly Asn Arg Leu Met Pro Ala Phe Arg Thr Pro Ser Lys Ile 280 285 Pro Tyr Ser Asp Val Asn Ile Gly Thr Gly Val Ala His Pro Pro Arg Trp Thr Ser Asp Ser Thr Val Ala Glu Val Thr Ser Ile Gln Leu Glu Phe Arg Glu Leu Ser Arg Leu Thr Gly Asp Lys Phe Gln Glu Ala Val Glu Lys Val Thr GIn His Ile His Gly Leu Ser Gly Lys Lys Asp 345 Gly Leu Val Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His Leu Gly Val Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr Leu Leu Lys Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu Glu Asp Tyr Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Arg 405 410 His Ser Glu Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly 425 Arg Phe Ser Ala Lys Met Asp His Leu Val Cys Phe Leu Pro Gly Thr 440 Leu Ala Leu Gly Val Tyr His Gly Leu Pro Ala Ser His Met Glu Leu Ala Gln Glu Leu Met Glu Thr Cys Tyr Gln Met Asn Arg Gln Met Glu

475

470

Thr Gly Leu Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro 485 490 495

- Gly Arg Arg Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu 500 505 510
- Arg Pro Glu Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly 515 520 525
- Asp Arg Lys Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser 530 540
- Arg Phe Thr Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val 545 550 555 560
- Gln Asp Pro Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe 565 570 575
- Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro 580 585 590
- Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro 595 600 605
- Leu Pro Ile Trp Thr Pro Ala 610 615
- <210> 2108
- <211> 404
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (41)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (77)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (96)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (98)
- <223> Xaa equals any of the naturally occurring L-amino acids
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- <221> SITE
- <222> (108)
- <223> Xaa equals any of the naturally occurring L-amino acids
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<222> (192)
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<222> (210)
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<221> SITE .
<222> (236)
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<222> (239)
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<220>
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<222> (309)
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<220>
<221> SITE
<222> (335)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (389)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2108
Met His Pro Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe
Leu Thr Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met
```

20

Lys Val Leu Gln Ala Arg Lys Asn Xaa Thr Ser Thr Glu Leu Ile Val 35 Glu Pro Glu Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Xaa Ile Ser Thr Leu Ser Tyr Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Xaa Ser Xaa Leu Leu Pro Phe Ile Lys Leu Pro Thr Xaa Gly Asn Ser Leu 105 Ala Lys Ile Gln Thr Val Gly Gln Asn Xaa Gln Xaa Val Xaa Arg Val 120 Leu Met Gly Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly Arg Gln Ser Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn 155 . 150 Ala Ala Glu Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Xaa Glu 165 170 Gln Pro His Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Xaa Tyr Thr Lys Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val Leu Xaa Pro Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys 215 Ala Leu Pro Gln Val Arg Asp Arg Trp Lys Asp Xaa Thr His Xaa Ile 230 Ser Ile Leu Glu Ser Ala Lys Ala Arg Val Thr Asn Met Lys Ala Ser Lys Pro Ile Ser His Ser Arg Lys Lys Tyr Arg Phè His Lys Thr Arg 265 Ser Arg Met Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe 275 . Arg Lys Lys Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro · 295 300 Phe Ser Ala Ala Xaa Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe Ser Ser Leu Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Kaa Val 330 Ser Ala Pro Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr 345

Thr Ala Arg Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn 355 360 365

Met Pro Glu Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro 370 375 380

Glu Ala Asp Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys 385 390 395 400

· Gln Thr Glu Thr

<210> 2109

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2109

Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser 1 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys 20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser 35 40

<210> 2110

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2110

Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser 1 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys 20 25 30

Cys Ser Glù Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser \cdot 35 40 45

<210> 2111 ·

. <211> 257

<212> PRT

<213> Homo sapiens

<400> 2111

Met Glu Met Ile Ile Gln Phe Gly Phe Val Thr Leu Phe Val Ala Ser 1 5 10 \cdot 15

Phe Pro Leu Ala Pro Leu Phe Ala Leu Leu Asn Asn Ile Ile Glu Ile 20 25 30

Arg Leu Asp Ala Lys Lys Phe Val Thr Glu Leu Arg Arg Pro Val Ala 35 40 45

Val Arg Ala Lys Asp Ile Gly Ile Trp Tyr Asn Ile Leu Arg Gly Ile 50 60

Gly Lys Leu Ala Val Ile Ile Asn Ala Phe Val Ile Ser Phe Thr Ser 65 70 75 80

Asp Phe Ile Pro Arg Leu Val Tyr Leu Tyr Met Tyr Ser Lys Asn Gly 85 90 95

Thr Met His Gly Phe Val Asn His Thr Leu Ser Ser Phe Asn Val Ser 100 105 110

Asp Phe Gln Asn Gly Thr Ala Pro Asn Asp Pro Leu Asp Leu Gly Tyr 115 120 125

Glu Val Gln Ile Cys Arg Tyr Lys Asp Tyr Arg Glu Pro Pro Trp Ser 130 135 140

Glu Asn Lys Tyr Asp Ile Ser Lys Asp Phe Trp Ala Val Leu Ala Ala 145 . 150 . 155 . 160

Arg Leu Ala Phe Val Ile Val Phe Gln Asn Leu Val Met Phe Met Ser 165 170 175

Asp Phe Val Asp Trp Val Ile Pro Asp Ile Pro Lys Asp Ile Ser Gln 180 185 190

Gln Ile His Lys Glu Lys Val Leu Met Val Glu Leu Phe Met Arg Glu 195 200 205

Glu Gln Asp Lys Gln Gln Leu Leu Glu Thr Trp Met Glu Lys Glu Arg 210 215 220

Gln Lys Asp Glu Pro Pro Cys Asn His His Asn Thr Lys Ala Cys Pro 225 230 235 240

Asp Ser Leu Gly Ser Pro Ala Pro Ser His Ala Tyr His Gly Gly Val 245 250 255

Leu

<210> 2112

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2112

Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
1 5 10 15

Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala $20 \\ \hspace{1.5cm} 25 \\ \hspace{1.5cm} 30 \\ \hspace{1.5cm}$

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val

Arg Arg 50

<210> 2113

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2113

Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly
1 5 10 15

Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala 20 25 30

Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val 35 40 . 45

Arg Arg 50

<210> 2114

<211> 74

<212> PRT

<213> Homo sapiens

<400> 2114

Met Val Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro 1 5 10 \cdot 15

Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile 20 25 30

Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala
. 35 40 45

Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu
50 55 60

Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser 65

<210> 2115

<211> 94

<212> PRT

<213> Homo sapiens

<400> 2115

Met Trp Pro Trp Trp Leu Met Val Glu Arg Thr Val Val Leu Leu Leu 1 5 10 15

Ile Thr Tyr Leu Val Pro Val Gly Gly Ser Ala Val Gly Pro Pro Gly 20 . 25 30

Pro Gly Cys Asn Val Ser Thr Ser Pro Pro Pro Pro Ala Thr Arg Cys
35 40 45

Pro Asp Glu Ser Glu Leu Tyr Arg Asp Pro Gly Glu Ala Pro Leu Glu
50 55 60

Ala Asp Gln Ala Glu Arg Gly Ala Ala His Glu Gly Gly His Pro Gly 65 70 75 80

Arg Asp Pro Trp Gly Ala Arg Arg Gly Pro Pro Arg Cys Gly
85

<210> 2116

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2116

Met Ala Ile Cys Ser Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe 1 5 10 15

Leu Glu Thr Leu Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys
20 25 30

Ile Gly Leu Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile 35 40 45

Ile Gln Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met 50 55 60

Glu Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro 65 70 75 80

Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met Asn 90 95

Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg Met Glu
100 105 110

Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn Ile Met Cys 115 120 125

Ala Ala Leu Asn Leu Ile Arg Gly Val His Leu Ala Glu His Ser Leu 130 135 140

Gln Val Ala His Glu Glu Ile Gly Asn Ile Leu Ala Phe Leu Val Pro 145 150 155 160

Phe Val Ala Cys Ile Phe Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu 165 170 175

Asp Gln Thr Ser

1391

<210> 2117

<211> 80

<212> PRT

<213> Homo sapiens

<400> 2117

Met Trp Pro Arg Met Leu Ala Phe Ser Thr Trp Leu Glu Trp Leu Leu 1 5 10

Phe Ser Pro Leu Pro Gln Ser Val Gly Cys Pro Gly Pro Leu Glu Phe 20 25 30

Tyr Cys Val Gln Asp Arg Arg Pro Pro Ser Leu Pro Asp Gly Ala Asp 35 . 40 45

His Phe Ser Ser Pro Thr Arg Ile Thr Ser Ser Ser Ile Ser Pro Ala 50 55 60

Leu Ser Leu Gln Ala Pro Glu Ala Gly Gly Phe Leu Ser Ile Pro Gly 65 70 75 80

<210> 2118

<211> 21

<212> PRT

<213> Homo sapiens

<400> 2118

Met His Asp Val Leu Phe Phe Leu Ser Phe Ser Leu Val Ala Cys Val 1 5 10 15

Lys Ala Gly Met Leu 20

<210> 2119

<211> 291

<212> PRT

<213> Homo sapiens

<400> 2119

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile 1 5 10 15

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile 20 25 30

Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys
35 40 45

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val

65 70 75 80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu 85 90 95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 100 105 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu 115 120 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 130 135 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 145 · 150 155 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr 165 170 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 180 185 190

Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe 195 200 \cdot \cdot 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
210 215 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Met 225 230 235 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Asn Lys Glu Leu Lys Ile 245 250 255

Leu Ser Met Ile Leu Pro Leu Ile Tyr Leu Cys Leu Asn Pro Thr Val 260 265 270

Ser Gln Asn Gln Asn Ser Phe Tyr Leu Arg Pro Gly Phe Leu Ser Val 275 280 285

Leu Phe Phe 290

<210> 2120

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2120

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile 1 5 10

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile 20 25 30

Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm} .$

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly 50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val 65 . 70 . 75 . 80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
85 90 95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 100 105 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp'lle Tyr Gly Leu 115 120 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 130 135 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 145 150 155 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr 165 170 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 180 185 190

Gly Leu Ser Leu Val Leu Gly Thr Gly Leu Phe Met Lys Arg Phe-195 200 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
210 215 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val 225 230 235 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln 245 250 255

Ser

<210> 2121

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2121

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile · 1 5 10 15

.

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile $20 \hspace{1cm} 25 \hspace{1cm} 30$

Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys 354045

Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly
50 55 60

Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val 65 70 75 80

Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu
85 90 95

Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 100 . 105 . 110

Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu
115 120 125

Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 130 140

Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 145 150 155 160

Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr 165 170 175

Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 180 185 190

Gly_Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe
195 200 205

Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln 210 215 220

Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val 225 230 235 240

Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Phe Ile Ser Gly Phe Gln
245 250 255

Ser

<210> 2122

<211> 352

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (284)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2122

Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile 1 5 10

Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile 20 25 30

Ile Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys 35 40 45

- Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly 50 60
- Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val 65 70 75 80
- Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu 85 90 95
- Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe 100 105 110
- Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu 115 120 125
- Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr 130 140
- Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu 145 150 155 160
- Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr 165 170 175
- Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala 180 185 190
- Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe 195 200 205
- Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln
 210 220
- Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val 225 230 235 240
- Leu Pro Leu Asn Lys Glu Glu Arg Arg Lys Tyr Val Ile Ile Pro Thr 245 250 255
- Phe Trp Pro Thr Pro Lys Glu Arg Lys Asn Leu Gly Leu Phe Phe Leu 260 265 270
- Pro Ile Leu Ile His Leu Cys Ile Trp Val Leu Xaa Ala Ala Val Asp 275 280 285
- Tyr Leu Leu Tyr Arg Leu Ile Phe Ser Val Ser Lys Gln Phe Gln Ser 290 295 300
- Leu Pro Gly Phe Glu Val His Leu Lys Leu His Gly Glu Lys Gln Gly 305 310 315 320
- Thr Gln Asp Ile Ile His Asp Ser Ser Phe Asn Ile Ser Val Phe Glu 325 330 335
- Pro Asn Cys Ile Pro Lys Pro Trp Gln Ala Leu Lys Leu Leu Ala His 340 345 350

<210> 2123 . <211> 259 <212> PRT <213> Homo sapiens <400> 2123 Met Val Ser Cys Ser Ile Leu Ala Leu Thr His Leu Leu Phe Glu Phe 5 10 Lys Gly Leu Met Gly Thr Ser Thr Val Glu Gln Leu Leu Glu Asn Val 25 Cys Leu Leu Leu Ala Ser Arg Thr Arg Asp Val Val Lys Ser Ala Leu Gly Phe Ile Lys Val Ala Val Thr Val Met Asp Val Ala His Leu Ala Lys His Val Gln Leu Val Met Glu Ala Ile Gly Lys Leu Ser Asp Asp Met Arg Arg His Phe Arg Met Lys Leu Arg Asn Leu Phe Thr Lys Phe 85 Ile Arg Lys Phe Gly Phe Glu Leu Val Lys Arg Leu Leu Pro Glu Glu 105 Tyr His Arg Val Leu Val Asn Ile Arg Lys Ala Glu Ala Arg Ala Lys 120 Arg His Arg Ala Leu Ser Gln Ala Ala Val Glu Glu Glu Glu Glu Glu 135 Glu Glu Glu Glu Pro Ala Gln Gly Lys Gly Asp Ser Ile Glu Glu Ile Leu Ala Asp Ser Glu Asp Glu Glu Asp Asn Glu Glu Glu Arg 165 170 Ser Arg Gly Lys Glu Gln Arg Lys Leu Ala Arg Gln Arg Ser Arg Ala 185 Trp Leu Lys Glu Gly Gly Gly Asp Glu Pro Leu Asn Phe Leu Asp Pro Lys Val Ala Gln Arg Val Leu Ala Thr Gln Pro Gly Pro Ala Gly Gln 215 Glu Glu Gly Pro Gln Leu Gln Gly Glu Arg Arg Trp Pro Ala Asp His 225 Lys Gly Gly Gly Arg Arg Gln Gln Asp Gly Gly Arg Gly Arg Cys Gln

250

· 255 .

Arg Arg Arg

<210> 2124

<211> 42

<212> PRT

· <213> Homo sapiens

<400> 2124

Met Leu Trp Leu Gly Thr Ser Leu Ile Phe Ser Ser Phe Ser Ala Ser 1 5 10 15

Phe Asp Gly Val Pro Phe Leu Ser Ser Trp Leu Phe Trp Ser Ser Gly 20 25 30

Ser Ser Pro Asn Ser Leu Ile Pro Pro Phe 35

<210> 2125

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2125

Met Tyr Pro Pro Val Ala Pro Ser Phe Trp Gly Cys Val Cys Phe Phe 1 5 10 15

Trp Ala Val Pro Leu Val Cys Cys Arg Asp Ser Trp Lys Gly Leu Ser 20 25 30

Leu Phe Val Gly Ser Gly Gly Leu Gly Leu Val Glu His 35 40 45

<210> 2126

<211> 54

<212> PRT

<213> Homo sapiens

<400> 2126

Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln 1 5 15

Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro 20 25 30

Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met 35 40 45

Arg Val Cys Ala Arg Val. 50

<210> 2127

<211> 136

<212> PRT .

<213> Homo sapiens

<400> 2127

Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala 1 5 10 15

Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp 20 25 30

Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu 35 40

Gly Val Leu Leu Leu Gly Glu Cys Thr Gly Ser Gly Arg Glu Trp 50 55 60

Ala Gly Ser Leu Asp Gln Ser Asn Gln Ala Arg Arg Lys Gly Asn Gly 65 70 75 80

Gly His Val Arg Glu Gly Val Glu Ser Arg Val Trp Gln Val Thr Gly 85 90 95

Ser Cys Pro Tyr Ser Val Tyr Ser Thr Gly Ser Arg Pro His Val Leu 100 105 110

Arg His Trp Glu Ala Ala Ser Gln Ala Pro Ala Ala Gly Arg Pro Gly 115 120 125

Gly Ala Ala Val Leu Leu Ser Leu 130 135

<210> 2128

<211> 74

<212> PRT

<213> Homo sapiens

<400> 2128

Met His Trp Thr Phe Ser Ser Ser Leu Gly Cys Leu Tyr His Phe Ser 1 5 10 15

Leu Ser Phe Ser Gly Leu His Thr Val Leu Lys Ser Ser Pro Ser Ser 20 25 30

Arg Phe Leu Leu Pro Cys Ser Ser Gln Val Thr Gln Pro Ser Pro Val 35 . 45

Gly Gln Pro Arg Leu Val Val Gln Leu Pro Pro Val Lys Val Ile Gly
50 60

His Arg Thr Gly Gln Cys Arg Gly Pro Gly 65 . 70

<210> 2129

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2129

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser 1 5 10 15

Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp
20 25 30

Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys
35 40 45

Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr 50 60

Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg 65 70 75 80

Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg 85 90

Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr 100 105 . 110

Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly
115 120 125

Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro 130 135 140

Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys 145 150 155 160

Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu 165 170 175

His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val 180 185 190

Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val 195 200 205

Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro 210 215 220

Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn 225 230 235 240

Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala 245 250

<210> 2130

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2130

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser

1 10 Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp 20 25 Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys 40 Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg 70 Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg 90 Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr 105 - Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly 120 -Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro. 135 Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys 155 Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu 165 170 His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val 185 Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro 215 Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn

Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala 245 250

<210> 2131

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2131

Met Phe Phe Gln Gly Trp Val Asp Arg Trp Leu Leu Gly Cys Leu Ala

Pro Gly Gly Phe Ala Ile His Glu Ala Arg Ala Gly Asn Thr Val Ser

Leu Pro Met Val Asp Pro Cys Glu Cys Gln Glu Ala Ser Ser Val 40 Leu Glu Met Ile Ser Ala Thr Ile Leu 50 55 <210> 2132 <211> 41 <212> PRT <213> Homo sapiens <400> 2132 Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met 5 · 10 Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly 25 . Ile Phe Ile Gly Pro Glu Gln Phe Leu 40 <210> 2133 <211> 51 <212> PRT <213> Homo sapiens <400> 2133 Met Ser Leu Glu Pro Ser Thr Ser Ser Phe Asn Ile Leu Leu Phe Pro Ala Phe Leu Arg Val Phe Gly Trp Ala Leu Gly Trp Met Pro Trp Glu Tyr Leu Tyr Leu Ser Ser Lys Val Thr Asn Gly Glu Thr Gly Thr Gln 45 40 Arg Gly Thr 50 <210> 2134 <211> 60 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

PCT/US01/11988

WO 01/77137 <400> 2134 Met Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser 10 Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser 2.0 25 Ser Leu Ala Trp Lys His Gly Pro Gly Xaa Leu Trp Trp Pro Arg Arg . 40 Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly 55 <210> 2135 <211> 60 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2135

Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser

Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser 25 _.

Ser Leu Ala Trp Lys His Gly Pro Gly Glu Leu Trp Trp Pro Arg Xaa

Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly 55

<210> 2136

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2136

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu 5

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile 25

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
50 55

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr 65 70 75

<210> 2137

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2137

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Lys Thr Ile Leu

1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro 35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
65 70 75

<210> 2138

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2138

Met Ser Ala Val Ser Ala Pro Ala Leu Trp Gln Thr Trp Cys Val Pro
1 5 10 15

Ala Ala Arg Ala Trp Thr Ser Ser Thr Leu Arg His Asp Ala Val Ala
20 25 30

Arg Pro Asn Pro Ser Thr Ser Leu Thr Pro Gly Leu Leu Thr Ser Ser 35 40 45

Asp Ser Pro Arg Trp Pro Gly Leu Gln Glu Ala Pro Gly Arg Pro Cys
50 55

Ile Arg Leu Gly Arg Ser Glu Leu Cys Met Tyr Ile Tyr Thr Tyr Ile 65 70 75 80

Asp Thr Phe Ile Ile Tyr Thr His Ser Leu Tyr Ile Tyr Ile His Cys 85 90 95

Phe Leu Ala Pro Glu Leu Ile Trp Val Gln Ala His Phe Lys Thr Leu 100 105 110

Pro Gly Gly Cys Phe Phe Ser Gly Phe Leu Ala Arg Glu Glu Gly

115 120 125

Glu Gly Thr Gly Trp Val Phe Ser Leu Lys Arg Glu Ser Arg Arg Phe 130 135 140

<210> 2139

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2139

Met Leu His Trp Val Leu Ser Phe Phe Phe Leu Leu Ser Cys Pro Arg 1 5 10 15

Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro Gly Cys Ser Gln Cys Pro 20 25 30

Gly Arg Gly Met Trp Pro Gly Asp Pro Gly Pro Gly Ile Gln Gly Pro
35 40 45

Gly Leu Asp Leu Arg Thr Gly Met Glu Ala Thr Gly Ala Gln Gln Pro 50 60 .

Thr Leu Ser Ser Pro His Cys Leu Leu Ser Leu Pro Thr Leu Pro Ala 65 70 . 75 80

Arg Ala Val Gln Leu Arg Trp Asp Leu Ser Ile Ser Arg Ala Gly Gly 85 90 95

Arg Val Ala Val Leu Gly Leu Cys Leu Glu Pro Gly Gly Ser Leu Leu 100 105 110 .

Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp Pro Cys Ala Ala Cys Pro 115 120 125

Pro Cys Pro Phe Val Pro Met Ser Gly Gly Gly Gly Arg Pro Thr Val 130 135 140

Pro Glu Ala Gly His Gln Pro 145 150

<210> 2140

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2140

Met Pro Pro Tyr Thr Pro Phe Phe Gly Thr Arg Ala Leu Leu Ser Val 1 5 10

Ser Leu Pro Pro Pro Cys Met Leu His Trp Val Leu Ser Phe Phe Phe 20 25 30

Leu Leu Ser Cys Pro Arg Thr Glu Gly Leu Pro Gly Leu Tyr Cys Pro
35 40 45

Gly Cys Ser Gln Cys Pro Gly Arg Gly Met Trp Pro Gly Asp Pro Gly 50 55 60

Pro Gly Ile Gln Gly Pro Gly Leu Asp Leu Arg Thr Gly Met Glu Ala 65 70 75 80

Thr Gly Ala Gln Gln Pro Thr Leu Ser Ser Pro His Cys Leu Leu Ser 85 90 95

Leu Pro Thr Leu Pro Ala Arg Aka Val Gln Leu Arg Trp Asp Leu Ser 100 105 110

Ile Ser Arg Ala Gly Gly Arg Val Ala Val Leu Gly Leu Cys Leu Glu 115 120 125

Pro Gly Gly Ser Leu Leu Leu Pro Pro Ser Ala Leu Pro Glu Thr Asp 130 . 140

Pro Cys. Ala Ala Cys Pro Pro Cys Pro Phe Val Pro Met Ser Gly Gly 145 150 155 160

Gly Gly Arg Pro Thr Val Pro Glu Ala Gly His Gln Pro . 165 170

<210> 2141

<211> 82

<212> PRT

<213> Homo sapiens

<400> 2141

Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg 1 5 10

Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg 20 25 30

Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala 35 40 45

Ser Met Val Ser Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr 50 55 60

Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser 65 70 75 80

Lys Ser

<210> 2142

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2142

Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val 1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro 20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly 35 40 45

Lys Glu Glu Trp Val
50

<210> 2143

<211> 53

<212> PRT

<213> Homo sapiens

<400> 2143

Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val

1 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro
20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly $35 \hspace{1cm} 40 \hspace{1cm} . \hspace{1cm} 45$

Lys Glu Glu Trp Val 50

<210> 2144

· <211> 53

<212> PRT

<213> Homo sapiens

<400> 2144

Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val 1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro 20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly 35 40 45

Lys Glu Glu Trp Val 50

<210> 2145

<211> 97

<212> PRT

<213> Homo sapiens

<400> 2145

Met Leu Trp Lys Leu Lys Leu Ser Arg Cys Trp Leu Asp Leu Thr Leu 1 5 10

Leu Ile Phe Ser Gln Ile Ser His Met Asp Gln Ile Ile Phe Phe 20 25 30

Val Val Tyr Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys Arg

Asp Phe Phe Cys Gly Gly Tyr Phe Leu Phe Cys Ser Lys Ile Ile Arg 50 55

Cys Lys Ala Ile Leu Cys Leu Thr Val Ala Leu Ser Lys Gln Leu Cys 65 70 75 80

Ser Gly Val Ala Phe Asp Val Leu Glu Phe Asp Tyr Met Gln Ser Cys 85 90 95

Ile

<210> 2146

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2146

Met Met Thr Met Thr Ser Asp Arg Trp Phe Ser Met Ala Trp Ala Ser $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Cys Ser Leu Ser Arg Pro Pro Leu Thr Pro Ser Cys Ser Cys Gln Gln 20 25 30

Pro Ala Thr Val Ala Leu Leu Gln Thr Ile Ser Val Cys Ser Ala 35 40 45

Gln Gln Ala Asp Pro Leu Ser Pro Pro Arg Ala Cys Arg Pro Xaa Arg 50 55 60

Gln Phe Pro Val Leu Gln Ser Ala Gly Pro Pro His Ser Pro His Val 65 70 75 80

Tyr Ala Phe Val Leu Phe Pro Val Ser Ser Arg Trp Gln Gly Gly Asp 85 90 95

Phe Cys Xaa Ile Cys Cys Cys Phe Pro Gln Cys Leu Gly Arg Cys Leu 100 105 110

Glu His Thr Arg Cys Ser Ile Asn Pro Xaa 115 120

<210> 2147

<211> 99

<212> PRT

<213> Homo sapiens

<400> 2147

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 50 . 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His 85 90 95

Pro Gly Asn

<210> 2148

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2148

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 . 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 130 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 225 230 235 240

Ile Phe Pro Ser Ala 245

<210> 2149

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2149

Met Gly His Leu His Trp Gly Val Ser Gly Asn Phe Phe Pro Arg 1 5 10 15

Leu Ser Leu Phe Leu Leu Phe Ala Trp Leu Gln Ile Thr Gln Ala Asn 20 25 30

Glu Pro Arg Leu Pro Gly Lys Tyr Ser Ile Lys Ala Ile Lys Ile Thr . 35 40 45

Ile Cys Ile Thr Phe Arg Thr Ser Ala 50 55

<210> 2150

<211> 152

<212> PRT

<213> Homo sapiens

. <400> 2150

Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu

1 5 10 15

Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu 20 25 . 30

Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly 35 40 45

Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys 50 55 60

Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr 65 70 75 80

Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asn Ala 85 90 95

Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His 100 105 110

Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala 115 120 125

Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln 130 135 140

Gly Pro Ala Ala Arg Gly Thr Trp 145 150

<210> 2151

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2151

Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu 1 5 10 15

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp 20 25 30

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn 35 40 45

Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr 50 55 60

Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr 65 70 75 80

Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe
85 90 95

Ser Leu Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His 100 105 110

Cys Leu Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Xaa 115 120 125

Glu Val Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser 130 135 140

Ala Pro His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser 145 . 150 155 160

Ile Asn Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp 165 170 175

Asn Ser Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn 180 185 190

Met Arg Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr 195 200 205

Pro Ser Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln 210 215 220

Asn Leu Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp 225 230 235 240

Lys Ile Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr 245 250 255

Trp Ser Ile Leu Ala Val Leu Cys Leu Leu Val Val Val Ala Val Ala 260 265 270

Ile Gly Trp Val Cys Arg Asp Arg Cys Leu Gln His Ser Tyr Ala Gly 275 280 285

Ala Trp Ala Val Ser Pro Glu Thr Glu Leu Thr Gly His Val
290 295 300

<210> 2152

<211> 316

<212> PRT

<213> Homo sapiens

<400> 2152

Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln 20 25 30

Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu
35 40

Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn

Leu lle Trp Gln Leu Thr Asp Thr Lys Gln Leu Yal His Ser Phe Ala 80 Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Ser Leu Arg Leu Gln Arg Val Asp Thr Val Asp Thr Ser Val Asp Ser Ile Arg Ser Val Ala Ser Ile Arg Asp Thr Ser Lys Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Leu Arg Pro Gly Asp Thr Asp Thr 160

Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val 165 170 175

Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr 180 185 190

Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu 195 200 205

Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn 210 215 220

Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Gly Gln 225 230 235 240

Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser 245 250 255

Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg 260 265 270

Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln 275 280 285

Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His 290 295 300

Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala 305 310 315

<210> 2153

<211> 831

<212> PRT

<213> Homo sapiens

<400> 2153

Met Lys Val His Met His Thr Lys Phe Cys Leu Ile Cys Leu Leu Thr 1 5 10 15

Phe Ile Phe His His Cys Asn His Cys His Glu Glu His Asp His Gly Pro Glu Ala Leu His Arg Gln His Arg Gly Met Thr Glu Leu Glu Pro Ser Lys Phe Ser Lys Gln. Ala Ala Glu Asn Glu Lys Lys Tyr Tyr Ile Glu Lys Leu Phe Glu Arg Tyr Gly Glu Asn Gly Arg Leu Ser Phe Phe Gly Leu Glu Lys Leu Leu Thr Asn Leu Gly Leu Gly Glu Arg Lys Val 85 90 Val Glu Ile Asn His Glu Asp Leu Gly His Asp His Val Ser His Leu 105 Asp Ile Leu Ala Val Gln Glu Gly Lys His Phe His Ser His Asn His 115 Gln His Ser His Asn His Leu Asn Ser Glu Asn Gln Thr Val Thr Ser 135 Val Ser Thr Lys Arg Asn His Lys Cys Asp Pro Glu Lys Glu Thr Val 155 Glu Val Ser Val Lys Ser Asp Asp Lys His Met His Asp His Asn His Arg Leu Arg His His His Arg Leu His His His Leu Asp His Asn Asn \cdot 180 185 Thr His His Phe His Asn Asp Ser Ile Thr Pro Ser Glu Arg Gly Glu Pro Ser Asn Glu Pro Ser Thr Glu Thr Asn Lys Thr Gln Glu Gln Ser 215

Asp Val Lys Leu Pro Lys Gly Lys Arg Lys Lys Gly Arg Lys Ser

Asn Glu Asn Ser Glu Val Ile Thr Pro Gly Phe Pro Pro Asn His Asp 245 250 255

Gln Gly Glu Gln Tyr Glu His Asn Arg Val His Lys Pro Asp Arg Val 260 265 270

His Asn Pro Gly His Ser His Val·His Leu Pro Glu Arg Asn Gly His 275 280 285

Asp Pro Gly Arg Gly His Gln Asp Leu Asp Pro Asp Asn Glu Gly Glu 290 295 300

Leu Arg His Thr Arg Lys Arg Glu Ala Pro His Val Lys Asn Asn Ala 305 310 315 320

Ile Ile Ser Leu Arg Lys Asp Leu Asn Glu Asp Asp His His Glu 325 330 335

Cys Leu Asn Val Thr Gln Leu Leu Lys Tyr Tyr Gly His Gly Ala Asn Ser Pro Ile Ser Thr Asp Leu Phe Thr Tyr Leu Cys Pro Ala Leu Leu Tyr Gln Ile Asp Ser Arg Leu Cys Ile Glu His Phe Asp Lys Leu Leu Val Glu Asp Ile Asn Lys Asp Lys Asn Leu Val Pro Glu Asp Glu Ala 390 Asn Ile Gly Ala Ser Ala Trp Ile Cys Gly Ile Ile Ser Ile Thr Val Ile Ser Leu Leu Ser Leu Leu Gly Val Ile Leu Val Pro Ile Ile Asn Gln Gly Cys Phe Lys Phe Leu Leu Thr Phe Leu Val Ala Leu Ala Val . 435 440 Gly Thr Met Ser Gly Asp Ala Leu Leu His Leu Leu Pro His Ser Gln 460 Gly Gly His Asp His Ser His Gln His Ala His Gly His Ser 470 His Gly His Glu Ser Asn Lys Phe Leu Glu Glu Tyr Asp Ala Val Leu 490 Lys Gly Leu Val Ala Leu Gly Gly Ile Tyr Leu Leu Phe Ile Ile Glu 505 His Cys Ile Arg Met Phe Lys His Tyr Lys Gln Gln Arg Gly Lys Gln 515 . 520 Lys Trp Phe Met Lys Gln Asn Thr Glu Glu Ser Thr Ile Gly Arg Lys 535 Leu Ser Asp His Lys Leu Asn Asn Thr Pro Asp Ser Asp Trp Leu Gln 555 Leu Lys Pro Leu Ala Gly Thr Asp Asp Ser Val Val Ser Glu Asp Arg Leu Asn Glu Thr Glu Leu Thr Asp Leu Glu Gly Gln Gln Glu Ser Pro 585 Pro Lys Asn Tyr Leu Cys Ile Glu Glu Glu Lys Ile Ile Asp His Ser His Ser Asp Gly Leu His Thr Ile His Glu His Asp Leu His Ala Ala Ala His Asn His His Gly Glu Asn Lys Thr Val Leu Arg Lys His Asn 635 His Gln Trp His His Lys His Ser His His Ser His Gly Pro Cys His 645 . 650

Ser Gly Ser Asp Leu Lys Glu Thr Gly Ile Ala Asn Ile Ala Trp Met 660 665 670

Val Ile Met Gly Asp Gly Ile His Asn Phe Ser Asp Gly Leu Ala Ile 675 680 685

Gly Ala Ala Phe Ser Ala Gly Leu Thr Gly Gly Ile Ser Thr Ser Ile 690 695 700

Ala Val Phe Cys His Glu Leu Pro His Glu Leu Gly Asp Phe Ala Val 705 710 715 720

Leu Leu Lys Ala Gly Met Thr Val Lys Gln Ala Ile Val Tyr Asn Leu 725 730 735

Leu Ser Ala Met Met Ala Tyr Ile Gly Met Leu Ile Gly Thr Ala Val 740 745 750

Gly Gln Tyr Ala Asn Asn Ile Thr Leu Trp Ile Phe Ala Val Thr Ala 755 760 . 765

Gly Met Phe Leu Tyr Val Ala Leu Val Asp Met Leu Pro Glu Met Leu 770 780

His Gly Asp Gly Asp Glu Glu His Gly Phe Cys Pro Val Gly Gln 785 790 795 800

Phe Ile Leu Gln Asn Leu Gly Leu Leu Phe Gly Phe Ala Ile Met Leu 805 810 815

Val Ile Ala Leu Tyr Glu Asp Lys Ile Val Phe Asp Ile Gln Phe 820 825 830

<210> 2154

<211> 480

<212> PRT

<213> Homo sapiens

<400> 2154

Met Leu Phe Arg Asn Arg Phe Leu Leu Leu Leu Ala Leu Ala Leu 1 5 10 . 15

Leu Ala Phe Val Ser Leu Ser Leu Gln Phe Phe His Leu Ile Pro Val 20 25 30

Ser Thr Pro Lys Asn Gly Met Ser Ser Lys Ser Arg Lys Arg Ile Met 35 40 45

Pro Asp Pro Val Thr Glu Pro Pro Val Thr Asp Pro Val Tyr Glu Ala 50 55 60

Leu Leu Tyr Cys Asn Ile Pro Ser Val Ala Glu Arg Ser Met Glu Gly 65 70 75 80

His Ala Pro His His Phe Lys Leu Val Ser Val His Val Phe Ile Arg 85 90 95 .

- Leu Glu Ala Phe Ile Ser His Met Ser Lys Gly Ser Gly Ala Ser Phe 130 140
- Glu Ser Pro Leu Asn Ser Leu Pro Leu Tyr Pro Asn His Pro Leu Cys 145 150 155 160
- Glu Met Gly Glu Leu Thr Gln Thr Gly Val Val Gln His Leu Gln Asn 165 170 175
- Gly Gln Leu Leu Arg Asp Ile Tyr Leu Lys Lys His Lys Leu Pro 180 185 190
- Asn Asp Trp Ser Ala Asp Gln Leu Tyr Leu Glu Thr Thr Gly Lys Ser 195 200 205
- Arg Thr Leu Gln Ser Gly Leu Ala Leu Leu Tyr Gly Phe Leu Pro Asp 210 215 220
- Phe Asp Trp Lys Lys Ile Tyr Phe Arg His Gln Pro Ser Ala Leu Phe 225 230 235 240
- Cys Ser Gly Ser Cys Tyr Cys Pro Val Arg Asn Gln Tyr Leu Glu Lys 245 250 255
- Glu Gln Arg Arg Gln Tyr Leu Leu Arg Leu Lys Asn Ser Gln Leu Glu 260 265 270
- Lys Thr Tyr Gly Glu Met Ala Lys Ile Val Asp Val Pro Thr Lys Gln 275 280 285
- Leu Arg Ala Ala Asn Pro Ile Asp Ser Met Leu Cys His Phe Cys His 290 295 300
- Asn Val Ser Phe Pro Cys Thr Arg Asn Gly Cys Val Asp Met Glu His 305 310 315 320
- Phe Lys Val Ile Lys Thr His Gln Ile Glu Asp Glu Arg Glu Arg Arg . 325 330 . 335
- Glu Lys Lys Leu Tyr Phe Gly Tyr Ser Leu Leu Gly Ala His Pro Ile 340 345 350
- Leu Asn Gln Thr Ile Gly Arg Met Gln Arg Ala Thr Glu Gly Arg Lys 355 360 365
- Glu Glu Leu Phe Ala Leu Tyr Ser Ala His Asp Val Thr Leu Ser Pro 370 375 380
- Val Leu Ser Ala Leu Gly Leu Ser Glu Ala Arg Phe Pro Arg Phe Ala 385 390 395 400
- Ala Arg Leu Ile Phe Glu Leu Trp Gln Asp Arg Glu Lys Pro Ser Glu 405 410 415

His Ser Val Arg Ile Leu Tyr Asn Gly Val Asp Val Thr Phe His Thr 420 425 430

Ser Phe Cys Gln Asp His His Lys Arg Ser Pro Lys Pro Met Cys Pro 435 440 445

Leu Glu Asn Leu Val Arg Phe Val Lys Arg Asp Met Phe Val Ala Leu 450 455 460

Gly Gly Ser Gly Thr Asn Tyr Tyr Asp Ala Cys His Arg Glu Gly Phe 465 470 475 480

<210> 2155

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2155

Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp

1 5 10 15

Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys 20 25 30

Ile Ala Arg Arg Leu Val Asp Asp Thr Asp Ala Met Ser Asn Ala Cys 35 40 45

Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile Val Val Ser Ala Phe 50 55 60

Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu Met Gly Arg Leu Pro 65 70 75 80

Phe Phe Ser Lys Met Gly Thr Ala Glu Ser Glu Gly Arg Glu Thr Leu 85 90 95

Thr Gln Gln Leu Pro Leu Pro Ala Ala Ala Met Arg Arg Leu Leu Pro
100 105 110

Ala Ser Arg Val Ser Thr Gln Pro Val Leu Arg Leu Ala Asp Ser Ala 115 120 125

Glu Ser Leu Leu Gly Arg Pro Ala Leu Trp Ala Leu Gly Phe Leu Leu 130 140

<210> 2156

<211> 89

<212> PRT

<213> Homo sapiens

<400> 2156

Met Tyr Met Gln Asp Tyr Trp Arg Thr Trp Leu Lys Gly Leu Arg Gly
1 5 10 15

Phe Phe Phe Val Gly Val Leu Phe Ser Ala Val Ser Ile Ala Ala Phe 20 25 30

Cys Thr Phe Leu Val Leu Ala Ile Thr Arg His Gln Ser Leu Thr Asp 35 40 45

Pro Thr Ser Tyr Tyr Leu Ser Ser Val Trp Ser Phe Ile Ser Phe Lys 50 55 60

Trp Ala Phe Leu Leu Ser Leu Tyr Ala His Arg Tyr Arg Ala Asp Phe 65 70 75 80

Ala Asp Ile Ser Ile Leu Ser Asp Phe 85

<210> 2157

<211> 56

<212> PRT

<213> Homo sapiens

<400> 2157

Met Arg Gly His Ile Thr Thr Leu Leu Thr Thr Ser Phe Leu Val Phe 1 5 10 15

Gly Leu His Ile Ile Phe Phe Leu Asn Ile Ser Cys Phe Asn Phe Arg 20 25 30

Val Phe Ile Leu Phe Glu Thr Arg Pro Glu Asp Ser Arg Leu Tyr Arg 35 40 45

Glu Arg Pro Val Leu Pro Arg Tyr
50 55

<210> 2158

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2158

Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu

1 10 15

Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg 20 25 . 30

Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln 35 40 45

Thr Ser

50

```
<210> 2159
<211> 50
<212> PRT
<213> Homo sapiens
<400> 2159
Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
                     10 . 15
Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
Thr Ser
  50
<210> 2160
<211> 81
<212> PRT
<213> Homo sapiens
<400> 2160
Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys
 5 .
                                 10
Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp
Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn
                         40
Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys Lys Pro Cys Lys
Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro Gly Ala Leu Pro Gln
                  70
Val
```

<210> 2161 <211> 73 <212> PRT

<213> Homo sapiens

<400> 2161

Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr Phe Asn Cys Ser Val 10

Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val Ser Val Phe Ile Leu . 25 20.

Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe Leu His Ser Glu Gln

35 40 45

Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu Lys Ser Ser Thr Ser 50 55 60

Phe Ala Asn Ile Gln Glu Asn Ser Asn 65 70

<210> 2162

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2162

Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro 1 5 10 15

Trp Leu Pro Leu Gly Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala 20 25 30

Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser 35 40 45

Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Gln
50 55 60

Gly Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu 65 70 75 80

Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala 85 90 95

Glu Leu Thr Gly Cys Leu Val Arg Ser Ala Arg Pro Val Arg Leu Cys 100 105 110

Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn 115 . 120 125

Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg 130 135 · 140

Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu 145 150 155 160

Phe Phe Asn Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr
165 170 175

Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Lys Ser 180 185 190

Ile

<210> 2163

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2163

Met Ala Pro Glu Val Met Glu Gln Val Arg Gly Tyr Asp Phe Lys Ala 1 5 10 15

Asp Ile Trp Ser Phe Gly Ile Thr Ala Ile Glu Leu Ala Thr Gly Ala 20 25 30

Ala Pro Tyr His Lys Tyr Pro Pro Met Lys Val Leu Met Leu Thr Leu 35 40 45

Gln Asn Asp Pro Pro Ser Leu Glu Thr Gly Val Gln Asp Lys Glu Met 50 55 60

Leu Lys Lys Tyr Gly Lys Ser Phe Arg Lys Met Ile Ser Leu Cys Leu 65 70 75 80

Gln Lys Asp Pro Glu Lys Arg Pro Thr Ala Ala Glu Leu Leu Arg His 85 90 95

Lys Phe Phe Gln Lys Ala Lys Asn Lys Glu Phe Leu Gln Glu Lys Thr , 100 105 110

Leu Gln Arg Ala Pro Thr Ile Ser Glu Arg Ala Lys Lys Val Arg Arg 115 120 125

Val Pro Gly Ser Cys Pro

<210> 2164

<211> 334

<212> PRT

<213> Homo sapiens

· <220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2164

Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro 1 5 10 15

Trp Leu Pro Leu Gly Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala 20 25 30

Leu Pro Phe Gly Ser Ser Pro His Arg Val Phe His Asp Leu Leu Ser 35 40 45

Glu Gln Gln Leu Leu Glu Val Glu Asp Leu Ser Leu Ser Leu Gln 50 55 60

Gly Gly Leu Gly Pro Leu Ser Leu Pro Pro Asp Leu Pro Asp Leu 65 70 75 80

Asp Pro Glu Cys Arg Glu Leu Leu Leu Asp Phe Ala Asn Ser Ser Ala 85 90 95

Glu Leu Thr Gly Cys Leu Val Arg Xaa Ala Arg Pro Val Arg Leu Cys 100 105 110

Gln Thr Cys Tyr Pro Leu Phe Gln Gln Val Val Ser Lys Met Asp Asn 115 120 125

Ile Ser Arg Ala Ala Gly Asn Thr Ser Glu Ser Gln Ser Cys Ala Arg 130 135 140

Ser Leu Leu Met Ala Asp Arg Met Gln Ile Val Val Ile Leu Ser Glu 145 150 155 160

Phe Phe Asn Thr Thr Trp Gln Glu Ala Asn Cys Ala Asn Cys Leu Thr 165 170 175

Asn Asn Ser Glu Glu Leu Ser Asn Ser Thr Val Tyr Phe Leu Asn Leu 180 185 190

Phe Asn His Thr Leu Thr Cys Phe Glu His Asn Leu Gln Gly Asn Ala. 195 200 205

His Ser Leu Leu Gln Thr Lys Asn Tyr Ser Glu Val Cys Lys Asn Cys 210 215 220

Arg Glu Ala Tyr Lys Thr Leu Ser Ser Leu Tyr Ser Glu Met Gln Lys 225 230 235 240

Met Asn Glu Leu Glu Asn Lys Ala Glu Pro Gly Thr His Leu Cys Ile 245 250 255

Asp Val Glu Asp Ala Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr . 260 265 270

Phe Asn Cys Ser Val Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val 275 280 285

Ser Val Phe Ile Leu Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe 290 295 300

Leu His Ser Glu Gln Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu 305 310 315 320

Lys Ser Ser Thr Ser Phe Ala Asn Ile Gln Glu Asn Ser Asn 325 330

<210> 2165

<211> 49

<212> PRT

<213> Homo sapiens

<400> 2165

Met Val Leu Val Phe Ala Tyr Leu Cys Val Leu Leu Ile Val Cys Trp

1 10 15

Val Thr Ser Lys Thr Ser Leu Ala Leu Lys Tyr Thr Val Tyr Lys Asn 20 25 30

Phe Lys Arg Leu Ile Trp Asn Lys Ser Ile Leu Ile Ile Thr Leu Thr 35 40 45

Pro

<210> 2166 ·

<211> 75

<212> PRT

<213> Homo sapiens

<400> 2166 .

Met Ser Leu Ser Ile Leu Val Ala Leu Ser Leu Gln Ile Leu Phe Leu

1 5 10 15

Phe Thr Ile Leu Lys Cys Met Leu Ala Lys Trp Val Asp Phe Gln Ile 20 25 30

Lys Cys Ser Phe His Lys Ser Phe Val Met Val Phe Trp Ser Glu Met 35 40 45

His Phe His Phe Ser Phe Leu Phe Leu Leu Ser Ile Leu Ser Phe Phe 50 55 60

Pro Asn Lys Ile Tyr Pro Gly Asp Tyr Ile Cys 65 70 75

<210> 2167

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2167

Met Leu Trp Ala Leu Asp Ser Leu Leu Phe Phe Ser His Ala Gln Leu 1 5 10 15

Val Pro Leu Gly Gly Glu Glu Trp Gly Ser Pro Gly Leu Gly Leu 20 25 30

His Ser Ile Ile Pro Ser Gln Ala Ser Gln Gly Val Ser Ala Pro Ala 35 40 45

Gln Asp Leu Ala Gly Arg Ala Pro Tyr Arg Glu Ser Leu Gly Arg Leu 50 60

Ser Arg Leu Met Ala Gly Pro Ala Arg Gly Val Leu Arg Pro Ala Leu 65 70 75 80

Arg Thr Cys Pro Leu Phe

<210> 2168

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2168

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp

1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Asn Arg Ala Trp Gly Ala 35 . 40 45

Arg Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe 50 55 60

Pro Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly 65 70 75 80

Gln Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr
85 90 95

Glu Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser 100 105 110

Leu Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg 115 120 125

Leu Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp 130 135 140

Gln Asp His Ile Tyr His Pro Gln 145 150

<210> 2169

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2169

Met Arg Arg Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp

1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
35 40

Val Val Glu Pro Pro Glu Lys Asp Gln Leu Val Val Leu Phe Pro 50 55 60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
65 70 75 80

Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro 85 90 95

Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln

100 . 105 110

Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu 115 120 125

Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln . 130 135 140

<210> 2170

<211> 453

<212> PRT

<213> Homo sapiens

<400> 2170

Met Lys Leu Leu Val Ile Leu Ile Phe Ser Gly Leu Ile Thr Cys Cys

1 10 15

Gly Gly Asn Ser Ser His Ser Leu Pro Ser Lys Leu Leu Leu Val Ser 20 25 30

Phe Asp Gly Phe Arg Ala Asp Tyr Leu Gln Asn Tyr Glu Phe Pro His 35 40 45

Leu Gln Asn Phe Ile Lys Glu Gly Val Leu Val Glu His Val Lys Asn
50 55 60

Val Phe Ile Thr Lys Thr Phe Pro Asn His Tyr Ser Ile Val Thr Gly 65 70 75 80

Leu Tyr Glu Glu Ser His Gly Ile Val Ala Asn Ser Met Tyr Asp Val 85 90 95

Ile Thr Lys Lys His Phe Ser Asp Phe Asp Asp Lys Asp Pro Phe Trp
100 105 110

Trp Asn Glu Ala Val Pro Ile Trp Val Thr Asn Gln Leu Gln Glu Asn 115 120 . 125

Arg Ser Ser Ala Ala Ala Met Trp Pro Gly Thr Asp Val Pro Ile His 130 135 140

Asn Thr Thr Pro Ser Tyr Phe Met Asn Tyr Ser Ser Ser Val Ser Phe 145 150 155 160

Glu Glu Arg Leu Asn Asn Ile Thr Met Trp Leu Met Asn Ser Asn Pro 165 170 175

Pro Val Thr Phe Ala Thr Leu Tyr Trp Glu Glu Pro Asp Ala Ser Gly
180 185 190

His Lys Tyr Gly Pro Glu Asp Lys Glu Asn Met Tyr Arg Val Leu Lys
195 200 205

Glu Val Asp Asp Leu Ile Gly Glu Leu Val His Lys Leu Lys Val Leu 210 215 220

Gly Leu Trp Glu Asn Leu Asn Val Ile Ile Thr Ser Asp His Gly Met 225 230 235 240

Thr Gln Cys Ser Lys Asp Lys Leu Ile Asn Leu Asp Leu Cys Ile Asp 245 250 255

Arg Ser Ser Tyr Thr Leu Val Asp Leu Thr Pro Val Ala Ala Val Leu 260 265 270

Pro Lys Ile Asn Thr Thr Glu Val Tyr Asn Lys Leu Lys Val Cys Asn 275 280 285

Pro His Met Asn Val Tyr Leu Lys Glu Asp Ile Pro Ala Arg Phe His 290 295 300

Tyr Gln His Asn Asp Arg Ile Gln Pro Ile Ile Leu Val Ala Asp Glu 305 310 315 320

Gly Trp Thr Ile Val Leu Asn Lys Ser Leu Pro Lys Leu Gly Asp His 325 330 335

Gly Tyr Asp Asn Ser Leu Ser Ser Met His Pro Phe Leu Ala Ala His 340 345 350

Gly Pro Ala Phe His Lys Gly Tyr Lys His Ser Thr Ile Asn Ser Val 355 360 365

Asp Ile Tyr Pro Met Met Cys His Ile Leu Gly Leu Lys Pro His Pro 370 380

Asn Asn Gly Thr Phe Gly His Thr Lys Cys Leu Leu Val Asp Gln Trp 385 390 395 400

Cys Ile Asn Leu Pro Glu Ala Ile Gly Ile Val Ile Gly Ala Leu Leu 405 410 415

Val Leu Thr Thr Leu Thr Cys Leu Ile Ile Ile Met Gln Asn Arg Leu 420 425 430

Ser Val Pro Arg Pro Phe Ser Arg Leu Gln Leu Gln Glu Asp Asp Asp 435 · 440 445

Asp Pro Leu Ile Glu 450

<210> 2171

<211> 287

<212> PRT

<213> Homo sapiens

<400> 2171

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu 1 5 10 15

Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
20 25 30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser 35 40 45

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp 50 55 60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser 65 70 75 80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
85 90 95

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Leu
100 105 110

Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His 115 120 125

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val 130 135 140

Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro 145 150 155 160

Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val 165 170 175

His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr 180 185 · 190

Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu 195 200 205

Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser 210 215 220

Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala 225 230 235 240

Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val 245 250 255

Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala 260 265 270

Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala 275 280 285

<210> 2172

<211> 613

<212> PRT

<213> Homo sapiens

<400>. 2172

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu 1 5 10 15

Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val 20 25 30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser 1428

	35		40			45		
			•					
370	Zen Mal	The Clar The	Clu Clu I	77-	~1 -	G1	7	73 1.

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp 50 55 60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser 65 70 75 80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val 85 90 . 95 \cdot

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu 100 105 110

Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His 115 120 125

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val

Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro 145 150 155 160

Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val 165 170 175

His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr 180 185 190

Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu 195 200 205

Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser 210 215 220

Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala 225 230 235 240

Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val 245 250 255

Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala 260 265 270

Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu 275 280 285

Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln 290 295 300

Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu 305 310 315 320

Pro Leu Glu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly 325 330 335

Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala 340 345 350

Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly

355 360 365

Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val 370 375 380

Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp 385 390 395 400

Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly 405 410 415

Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val 420 425 430

His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala 435 440 445

Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile 450 455 460

Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp 465 470 475 480

Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu 485 490 . 495

Val Gly Gly Val Asp Gly Val Ala Glu Leu Gly Val Arg Pro 500 505 510

Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg 515 520 525

Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys 530 535 540

Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545 550 560

Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala 565 570 575

Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu 580 585 590

Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys 595 600

Arg Leu Arg Lys Arg · 610

<210> 2173

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2173

Met Trp Gly Trp Gly Ser Leu Val Ser Ala Arg Gly Gly Trp Gly Val
1 5 10 15

Phe Ile Tyr Leu Tyr Met Gly Leu Tyr Ile Val Leu Trp Gly Met Gly 20 25 30

Glu Pro Ala Gly Gly Glu Asn Pro Pro Leu Ser Pro His Pro Pro Gly 35 40 45

Arg Ala Asn Val Lys Leu Leu Ile Phe Val Leu Tyr Ile Phe Tyr Ile 50 55 60

Asn Ile Ser Ile Phe Phe Leu Gln Asn Gln Phe Ile Asn Gly Arg Gly 65 70 75 80

Val Trp Gly Gly His Met Glu Leu Pro Leu Trp Gly Gly Pro Leu His
85 90 95

Tyr Pro Thr Tyr Arg Pro Phe Pro His Pro Pro Pro His Ser Pro Pro 100 105 110

<210> 2174

<211> 613

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (507)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2174

Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu 1 5 10 15

Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val 20 25 30

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Sér 35 40 45

Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp 50 55 60

Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser 65 70 75 80

Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
85 90 95

Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu 100 105 110

. Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
115 120 125

Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val

	130					135					140				
Glu 145	Leu	Arg	Val	Leu	Pro 150	Asp	Val	Leu	Gln	Val 155	Ser	Ala	Ala	Pro	Pro 160
Gly	Pro	Arg	Gly	Arg 165	Gln	Ala	Pro	Thr	Ser 170	Pro	Pro	Arg	Meț	Thr 175	Val
His	Glu	Gly	Gln 180	Glu	Leu	Ala	Leu	Gly 185	Суз	Leu	Ala	Arg	Thr 190	Ser	Thr
Gln	Lys	His 195	Thr	His	Leu	Ala	Val 200	Ser	Phe	Gly	Arg	Ser 205	Val	Pro	Glu
Ala	Pro 210	Val	Gly	Arg	Ser	Thr 215	Leu	Gln	Glu	Val	Và1 220	Gly	lle	Arg	Ser
Asp 225	Leu	Ala	Val	Glu	Ala 230	Gly	Ala	Pro	Tyr	Ala 235	Glu	Arg	Leu	Ala	Ala 240
Gly	Glu	Leu	Arg	Leu 245	Gly	Lys	Glu	Gly	Thr 250	Asp	Arg	Tyr.	Arg	Met 255	Val
Val	Gly	Gly	Ala 260	Gln	Ala	Gly	Asp	Ala 265	Gly	Thr	Tyr	His	Cys 270	Thr	Ala
Ala	Glu	Trp 275	Ile	Gln	Asp	Pro	Asp 280	Gly	Ser	Trp	Ala	Gln 285	Ile	Ala	Glu
Lys	Arg 290	Ala	Val	Leu	Ala	His 295	Val	Asp	Val	Gln	Thr 300	Leu	Ser	Ser	Gln
Leu 305	Ala	Val	Thr	Val	Gly 310	Pro	Gly	Glu	Arg	Arg 315	Ile	Gly	Pro	Gly	Glu 320
Pro	Leu	Glu	Leu	Leu 325	Cys	Asn	Val	Ser	Gly 330	Ala	Leu	Pro	Pro	Ala 335	Gly

325 330 335

Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala 340 345 350

Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly 355 360 365

Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val 370 380

Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp 385 390 395 400

Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
405 410 415

Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val 420 425 430

His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala 435 440 445

Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile

450 455 460

Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp 465 470 475 480

Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu 485 490 495

Val Gly Gly Val Gly Gln Asp Gly Val Ala Xaa Leu Gly Val Arg Pro 500 505 510

Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg 515 520 525

Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys 530 535 540

Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala 545 550 555 560

Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala 565 570 575

Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu 580 585 590

Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys 595 600 605

Arg Leu Arg Lys Arg . 610

<210> 2175

<211> 60

<212> PRT '

<213> Homo sapiens

<400> 2175

Met Ala Trp Ala Val Thr Leu Ile Leu Ser Leu Ser Arg Ala Val Arg

1 5 10 15

Thr Gln Glu Val Pro Met Ala Leu Gln Ala His Ser Gly Ile Gln Leu 20 25 30

Ala Ser Arg Val Gly Leu Pro Gly Pro Trp Pro Glu Cys Ser Thr Leu 35 40

Ser Ser Arg Cys His Leu Ser Met Asp Ser Lys Val
50 55 60

<210> 2176

<211> 396

<212> PRT

<213> Homo sapiens

· <400> 2176

Met Trp Trp Leu Leu Trp Gly Val Leu Gln Ala Cys Pro Thr Arg Gly Ser Val Leu Leu Ala Gln Glu Leu Pro Gln Gln Leu Thr Ser Pro Gly Tyr Pro Glu Pro Tyr Gly Lys Gly Gln Glu Ser Ser Thr Asp Ile Lys Ala Pro Glu Gly Phe Ala Val Arg Leu Val Phe Gln Asp Phe Asp Leu Glu Pro Ser Gln Asp Cys Ala Gly Asp Ser Val Thr Ile Ser Phe Val Gly Ser Asp Pro Ser Gln Phe Cys Gly Gln Gln Gly Ser Pro Leu Gly Arg Pro Pro Gly Gln Arg Glu Phe Val Ser Ser Gly Arg Ser Leu 105 Arg Leu Thr Phe Arg Thr Gln Pro Ser Ser Glu Asn Lys Thr Ala His 120 125 Leu His Lys Gly Phe Leu Ala Leu Tyr Gln Thr Val Ala Val Asn Tyr Ser Gln Pro Ile Ser Glu Ala Ser Arg Gly Ser Glu Ala Ile Asn Ala 155 Pro Gly Asp Asn Pro Ala Lys Val Gln Asn His Cys Gln Glu Pro Tyr 170 Tyr Gln Ala Ala Ala Gly Ala Leu Thr Cys Ala Thr Pro Gly Thr Trp Lys Asp Arg Gln Asp Gly Glu Glu Val Leu Gln Cys Met Pro Val 200 Cys Gly Arg Pro Val Thr Pro Ile Ala Gln Asn Gln Thr Thr Leu Gly Ser Ser Arg Ala Lys Leu Gly Asn Phe Pro Trp Gln Ala Phe Thr Ser Ile His Gly Arg Gly Gly Ala Leu Leu Gly Asp Arg Trp Ile Leu 250 Thr Ala Ala His Thr Ile Tyr Pro Lys Asp Ser Val Ser Leu Arg Lys 265 Asn Gln Ser Val Asn Val Phe Leu Gly His Thr Ala Ile Asp Glu Met 280 Leu Lys Leu Gly Asn His Pro Val His Arg Val Val His Pro Asp 300 Tyr Arg Gln Asn Glu Ser His Asn Phe Ser Gly Asp Ile Ala Leu Leu 310

Glu Leu Gln His Ser Ile Pro Leu Gly Pro Asn Val Leu Pro Val Cys 325 330 .335

Leu Pro Asp Asn Glu Thr Leu Tyr Arg Ser Gly Leu Leu Gly Tyr Val 340 345 350

Ser Gly Phe Gly Met Glu Met Gly Trp Leu Thr Thr Glu Leu Lys Tyr 355 360 365

Ser Arg Leu Pro Val Ala Pro Arg Glu Ala Cys Asn Ala Trp Leu Gln 370 380

Lys Arg Gln Arg Pro Glu Lys Lys Lys Lys Lys S 385 390 395

<210> 2177

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2177

Gly Thr Arg Thr Glu Arg Asp Glu Leu Leu Lys Asp Leu Gln Gln Ser 1 5 10 15

Ile Ala Arg Glu Pro Ser Ala Pro Ser Ile Pro Thr Pro Ala Tyr Gln
20 25 30

Ser Leu Pro Ala Gly Gly His Ala Pro Thr Pro Pro Thr Pro Ala Pro 35 40 45

Arg Thr Met Pro Pro Thr Lys Pro Gln Pro Pro Ala Arg Pro Pro Pro 50 55 60

Pro Val Leu Pro Ala Asn Arg Ala Pro Ser Ala Thr Ala Pro Ser Pro 65 70 75 80

Val Gly Ala Gly Thr Ala Ala Pro Ala Pro Ser Gln Thr Pro Gly Ser 85 90 95

Ala Pro Pro Pro Gln Ala Gln Gly Pro Pro Tyr Pro Thr Tyr Pro Gly 100 105 110

Tyr Pro Gly Tyr Cys Gln Met Pro Met Pro Met Gly Tyr Asn Pro Tyr 115 120 . 125

Ala Tyr Gly Gln Tyr Asn Met Pro Tyr Pro Pro Val Tyr His Gln Ser \cdot 130 140

Pro Gly Gln Ala Pro Tyr Pro Gly Pro Gln Gln Pro Ser Tyr Pro Phe 145 150 155 160

Pro Gln Pro Pro Gln Gln Ser Tyr Tyr Pro Gln Gln 165 170

<210> 2178 <211> 142

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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2178
Met His Gln Leu Leu Gln Leu Gln Arg Gln Glu Pro Cys Arg Leu Leu
Ser Pro Ser Pro Gln Pro Gly Leu His His Leu Cys Phe Gln Gln Ile
                               25
Glu Leu Leu Leu Leu Leu His Leu Gln Trp Gly Leu Gly Leu Leu
Arg Gln Leu His His Lys Arg Leu Ala Gln Leu Leu His Arg Arg
Arg Asp His Pro Ile Pro Pro Ile Gln Asp Ile Leu Gly Ile Ala Lys
                                        75
Cys Pro Cys Pro Trp Ala Ile Ile Leu Met Arg Met Ala Ser Ile Ile
Cys His Ile His Gln Cys Ile Thr Arg Val Leu Asp Arg Leu Xaa Thr
                               105
Arg Asp Pro Ser Ser Leu His Thr Pro Ser Leu Ser Pro His Ser Ser
                    120 125
Leu Thr Ile His Ser Ser Asn Met Ser Ala Gln Gln Leu Ser
                       135
<210> 2179
<211> 868
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (550)
<223> Xaa equals any of the naturally occurring L-amino acids
Met Ala Thr Phe Ile Ser Val Gln Leu Lys Lys Thr Ser Glu Val Asp
```

1				5					10					15	
Leu	Ala	Lys	Pro 20	Leu	Val	Lys	Phe	Ile 25	Gln	Gln	Thr	Tyr	Pro 30	Ser	Gly
Gly	Glu	Glu 35	Gln	Ala	Gln	Tyr	Суs 40	Arg	Ala	Ala	Glu	Glu 45	Leu	Ser	Lys
Leu	Arg 50	Arg	Ala	Ala	Val	Gly 55	Arg	Pro	Leu	Asp	Lys 60	His	Glu	Gly	Ala
Leu 65	Glu	Thr	Leu	Leu	Arg 70	Tyr	Tyr	Asp	Gln	Ile 75	Cys	Ser	Ile	Glu	Pro 80
Lys	Phe	Pro	Phe	Ser 85	Glu	Asn	Gln	Ile	Cys 90	Leu	Thr	Phe	Thr	Trp 95	Lys
Asp	Ala	Phe	Asp 100	Lys	Gly	Ser.	Leu	Phe 105	Gly	Gly	Ser	Val	Lys 110	Leu	Ala
Leu	Ala	Ser 115	Leu	Gly	Tyr	Glu	Lys 120	Ser	Cys	Val	Leu	Phe 125	Asn	Cys	Ala
Ala	Leu 130	Ala	Ser	Gln	Ile	Ala 135	Ala	Glu	Gln	Asn	Leu 140	Asp	Asn	Asp	Glu
Gly 145	Leu	Lys	Ile	Ala	Ala 150	Lys	His	Tyr	Gln	Phe 155	Ala	Ser 	Gly	Ala	Phe 160
Leu	His	Ile	Lys	Glu 165	Thr	Val	Leu	Ser	Ala 170	Leu	Ser	Arg	Glu	Pro 175	Thr
Val	Asp	Ile	Ser 180	Pro	Asp	Thr	Val	Gly 185	Thr	Leu	Ser	Leu	Ile 190	Met	Leu
Ala	Xaa	Ala 195	Gln	Glu	Val	Phe	Phe 200	Leu	Lys	Ala	Thr	Arg 205	Asp	Lys	Met
Lys	Asp 210	Ala	Ile	Ile	Ala	Lys 215	Leu	Ala	Asn	Gln	Ala 220	Ala	Asp	Tyr	Phe
Gly 225	Asp	Ala	Phe	Lys	Gln 230	Суѕ	Gln	Tyr	Lys ·	Asp 235	Thr	Leu	Pro	Lys	Glu 240
Val	Phe	Pro	Val	Leu 245	Ala '	Ala	Lys	His	Cys 250	Ile	Met	Gln	Ala	Asn 255	Ala
Glu	Tyr	His	Gln 260	Ser	Ile	Leu	Ala	Lys 265	Gln	Gln	Lys	Lys	Phe 270	Gly	Glu
Glu	Ile	Ala 275	Arg	Leu	Gln	His	Ala 280	Ala	Glu	Leu	Ile	Lys 285	Thr	Val	Ala
Ser	Arg 290	Tyr	Asp	Glu	Tyr	Val 295		Val	Lys	Asp	Phe 3:00	Ser	Asp	TA2	Ile
Asn 305	Arg	Ala	Leu	Xaa	Ala 310	Ala	Lys	Lys	Asp	Asn 315	Asp	Phe	Ile	Tyr	His 320
Asp	Arg	Val	Pro	Asp	Leu	Ŀуs	Asp	•	Asp 437	Pro	Ile	Gly	Lys ·	Ala	Thr

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Leu	Val	Lys	Ser 340	Thr	Pro	Val	Asn	Val 345	Pro	Ile	Ser	Gln	Lys 350	Phe	Thr
Asp	Leu	Phe 355	Glu	Lys	Met	Val	Pro 360	Val	Ser	Val	Gln	Gln 365	Ser	Leu	Ala
Ala	Tyr 370	Asn	Gln	Arg	Lys	Ala 375	Asp	Leu	Val	Asn	Arg 380	Ser	Ile	Ala	Gln
Met 385	Arg	Glu	Ala	Thr	Thr 390	Leu	Ala	Asn	Gly	Val 395	Leu	Ala	Ser	Leu	Asn 400
Leu	Pro	Ala	Ala	Ile 405	Glu	Asp	Val -	Ser	Gly 410	Asp	Thr	Val	Pro	Gln 415	Ser
Ile	Leu ·	Thr	Lys 420	Ser	Arg	Ser	Val	Ile 425	Glu	Gln	Gly	Gly	Ile 430	Gln	Thr
Val	Asp	Gln 435	Leu	Ile	Lys	Glu	Leu 440	Pro	Glu	Leu	Leu	Gln 445	Arg	Asn	Arg
Glu	Ile 450	Leu	qzA	Glu	Ser	Leu 455	Arg	Leu	Leu	Asp	Glu 460	Glu	Glu	Ala	Thr
Asp 465	Asn	Asp	Leu	Arg	Ala 470	Lys	Phe	Lys	Glu	Arg 475	Trp	Gln	Arg	Thr	Pro 480
Ser	Asn	Glu	Leu	Tyr 485	Lys	Pro	Leu	Arg	Ala 490	Glu	Gly	Thr	Asn	Phe 495	Arg
Thr	Val		Asp 500	Lys	Ala	Val	Gln	Ala 505	Asp	Gly	Gln	Val	Lys 510	Glu	Cys
Tyr	Gln	Ser 515	His	Arg	Asp	Thr	Ile 520	Val	Leu	Leu	Cys	Lys 525	Pro	Glu	Pro
Glu	Leu 530	Asn	Ala	Ala	Ile	Pro 535	Ser	Ala	Asn	Pro	Ala 540	Lys	Thr	Met	Gln
Gly 545	Ser	Gļu	Val	Val	Xaa 550	Val	Leu	Lys	Ser	Leu 555	Leu	Ser	Asn	Leu	Asp 560
Glu	Val	Tàs	Lys	Glu 565	Arg	Glu	Gly	Leu	Glu 570	Asn	Asp	Leu	Lys	Ser 575	Val
Asn	Phe	Asp	Met 580	Thr	Ser	Lys	Phe	Leu 585	Thr	Ala	Leu	Ala	Gln 590	Asp	Gly
Val	Ile	Asn 595	Glu	Glu	Ala	Leu	Ser 600	Val	Thr	Glu	Leu	Asp 605	Arg	Val	Tyr
Gly	Gly 610 `	Leu	Thr	Thr	Lys	Val 615	Gln	Glu	Ser	Leu	Lys 620	ГÀЗ	Gln	Glu	Gly
Leu 625	Leu	Lys	Asn	Ile	Gln 630	Val	Ser `	His	Gln	Glu 635	Phe ·	Ser	Lys	Met	Lys 640
Gln	Ser	Asn	Asn	Glu	Ala	Asn	Leu	Arg	Glu	Glu	Val	Leu	Lys	Asn	Leu

645 650 655

Ala Thr Ala Tyr Asp Asn Phe Val Glu Leu Val Ala Asn Leu Lys Glu 660 665 670

Gly Thr Lys Phe Tyr Asn Glu Leu Thr Glu Ile Leu Val Arg Phe Gln 675 680 685

Asn Lys Cys Ser Asp Ile Val Phe Ala Arg Lys Thr Glu Arg Asp Glu 690 695 700

Leu Leu Lys Asp Leu Gln Gln Ser Ile Ala Arg Glu Pro Ser Ala Pro 705 710 715 720

Ser Ile Pro Thr Pro Ala Tyr Gln Ser Leu Pro Ala Gly Gly His Ala 725 730 735

Pro Ser Ala Thr Ala Pro Ser Pro Val Gly Ala Gly Thr Ala Ala Pro 770 775 780

Ala Pro Ser Gln Thr Pro Gly Ser Ala Pro Pro Pro Gln Ala Gln Gly
785 790 795 800

Pro Pro Tyr Pro Thr Tyr Pro Gly Tyr Pro Gly Tyr Cys Gln Met Pro 805 810 815

Met Pro Met Gly Tyr Asn Pro Tyr Ala Tyr Gly Gln Tyr Asn Met Pro 820 825 830

Tyr Pro Pro Val Tyr His Gln Ser Pro Gly Gln Ala Pro Tyr Pro Gly 835 840 845

Pro Gln Gln Pro Ser Tyr Pro Phe Pro Gln Pro Pro Gln Gln Ser Tyr 850 855 860

Tyr Pro Gln Gln 865

<210> 2180

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2180

Met Lys Pro Ala Thr Ala Ser Ala Leu Leu Leu Leu Leu Leu Gly Leu 1 5 10 15

Ala Trp Thr Gln Gly Ser His Gly Trp Gly Ala Asp Ala Ser Ser Leu 20 25 30

Gln Lys Arg Ala Gly Arg Ala Asp Gln Pro Gly Ala Gly Trp Gln Glu 35 40 45

Val Ala Val Thr Ser Lys Asn Tyr Asn Tyr Asn Gln His Ala Tyr 50 55 60

Pro Thr Ala Tyr Gly Gly Lys Tyr Ser Val Lys Thr Pro Ala Lys Gly 65 70 75 80

Gly Val Ser Pro Ser Ser Ser Ala Ser Arg Val Gln Pro Gly Leu Leu 85 90 95

Gln Trp Val Lys Phe Trp 100

<210> 2181

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2181

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val

1 10 15

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val 20 25 30

Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu 35 40

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu 50 55 . 60

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly 65 70 75 80

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly 85 90 95

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr 100 105 . 110

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly 130 135 140

<210> 2182

<211> 156

<212> PRT

<213> Homo sapiens

<400> 2182

Met Leu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp Phe Val Phe 1 5 10 15

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val 20 25 30

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val 35 40 45

Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu 50 55 60

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu 65 70 75 80

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly 85 90 95

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly 100 105 110

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr 115 120 125

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly 130 140

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly 145 150 155

<210> 2183

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2183

Met Ala Tyr Gln Ser Leu Arg Leu Glu Tyr Leu Gln Ile Pro Pro Val 1 5 10

Ser Arg Ala Tyr Thr Thr Ala Cys Val Leu Thr Thr Ala Ala Val Gln
20 25 30

Leu Glu Leu Ile Thr Pro Phe Gln Leu Tyr Phe Asn Pro Glu Leu Ile 35 40 45

Phe Lys His Phe Gln Ile Trp Arg Leu Ile Thr Asn Phe Leu Phe Phe 50 55 60

Gly Pro Val Gly Phe Asn Phe Leu Phe Asn Met Ile Phe Leu Tyr Arg 65 70 75 80

Tyr Cys Arg Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp 85 90 95

Phe Val Phe Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly 100 105 110

Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu 115 120 125

Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe 130 135 140

Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly 145 150 155 160

Phe Ser Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile 165 170 175

Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln 180 185 190

Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile 195 200 205

Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu 210 215 220

Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly 225 230 235

<210> 2184

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2184

Met Thr Leu Phe Gly Leu Phe Val Ser Leu Val Phe Leu Gly Gln Ala 1 5 10 15

Phe Thr Ile Met Leu Val Tyr Val Trp Ser Arg Arg Asn Pro Tyr Val 20 25 30

Arg Met Asn Phe Phe Gly Leu Leu Asn Phe Gln Ala Pro Phe Leu Pro 35 40 45

Trp Val Leu Met Gly Phe Ser Leu Leu Gly Asn Ser Ile Ile Val 50 55 60

Asp Leu Leu Gly Ile Ala Val Gly His Ile Tyr Phe Phe Leu Glu Asp 65 70 75 80

Val Phe Pro Asn Gln Pro Gly Gly Ile Arg Ile Leu Lys Thr Pro Ser 85 90 95

Ile Leu Lys Ala Ile Phe Asp Thr Pro Asp Glu Asp Pro Asn Tyr Asn 100 105 110

Pro Leu Pro Glu Glu Arg Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln
115 120 125

Arg Leu Gly Gly 130 ·

<210> 2185

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2185

Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly
1 5 10 15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr
20 25 30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu 35 40

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu 50 55 . 60

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile 65 70 75 80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro · 85 90 95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn 100 105 110

Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe 115 120 125

Ala Leu Ala Ile Arg Asp Thr Ala Ser.Tyr Ala Arg Gln Met Met Phe 130 140

Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly 145 150 155 160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp 165 170 175

Pro Asp Gln Asp Pro Pro Pro Asn Asp Ser Phe Gln Val Leu Gln 180 185 190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser 195 200 205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys 210 215 220

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Leu Pro Ala 225 230 235 240

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp 245 250 255

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu 260 265 270

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly 275 280 285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg 290 295 300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly 305 310 315 320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu 325 330 335

Asp Asn Ala

<210> 2186

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2186

Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly 1 5 10 15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr
20 25 30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu 35 40 45

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu 50 55 60

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile 65 70 75 80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro 85 90 95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn 100 105 . 110

Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe 115 120 125

Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe 130 135 140

Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly
145 150 155 160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp 165 170 175

Pro Asp Gln Asp Pro Pro Pro Asn Asp Ser Phe Gln Val Leu Gln 180 185 190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser 195 200 205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys 215 Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala 230 235 Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu 260 265 270 Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly 280 Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg 290 295 Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly 310 315 Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu 325 330 . 335 Asp Asn Ala <210> 2187 <211> 509 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (168)^c <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (198) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (199) <223> Xaa equals any of the naturally occurring L-amino acids <221> SITE <222> (244) <223> Xaa equals any of the naturally occurring L-amino acids <220>

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<222> (493)
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<221> SITE
<222> (498)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (499)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2187
Met Glu Glu Leu Ala Thr Glu Lys Glu Ala Glu Glu Ser His Arg Gln
Asp Ser Val Xaa Leu Leu Thr Phe Ile Leu Leu Leu Thr Leu Thr Ile
Leu Thr Ile Trp Leu Phe Lys His Arg Arg Val Arg Phe Leu His Glu
Thr Gly Leu Ala Met Ile Tyr Gly Leu Ile Val Gly Val Ile Leu Arg
                         55 .
Tyr Gly Thr Pro Ala Thr Ser Gly Arg Asp Lys Ser Leu Ser Cys Thr
 65
                     70
                                          75
Gln Glu Asp Arg Ala Phe Ser Thr Leu Leu Val Asn Val Ser Gly Lys
Phe Phe Glu Tyr Thr Leu Lys Gly Glu Ile Ser Pro Gly Lys Ile Asn
                                 105
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Ser Val Glu Gln Asn Asp Met Leu Arg Lys Val Thr Phe Asp Pro Glu Val Phe Phe Asn Ile Leu Leu Pro Pro Ile Ile Phe His Ala Gly Tyr 135 Ser Leu Lys Lys Arg His Phe Phe Arg Asn Leu Gly Ser Ile Leu Ala Tyr Ala Phe Leu Gly Thr Ala Xaa Ser Cys Phe Ile Ile Gly Asn Leu Met Tyr Gly Val Val Lys Leu Met Lys Ile Met Gly Gln Leu Ser Asp Lys Phe Tyr Tyr Thr Xaa Xaa Leu Phe Phe Gly Ala Ile Ile Ser Ala 200 Thr Asp Pro Val Thr Val Leu Ala Ile Phe Asn Glu Leu His Ala Asp 215 220 Val Asp Leu Tyr Ala Leu Leu Phe Gly Glu Ser Val Leu Asn Asp Ala Val Ala Ile Xaa Leu Xaa Ser Ser Ile Val Ala Tyr Gln Pro Ala Gly 245 Leu Asn Thr His Ala Phe Asp Ala Ala Ala Phe Phe Lys Ser Val Gly 265 Ile Phe Leu Gly Ile Phe Ser Gly Ser Phe Thr Met Gly Ala Val Thr Gly Val Val Thr Ala Xaa Val Thr Lys Phe Thr Lys Xaa His Xaa Phe 295 300 Pro Leu Leu Glu Thr Ala Leu Phe Phe Leu Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Val Glu . 345 Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu Val Leu His Phe Leu Ala 355 360 Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln 375 380 Lys His Val Phe Ser Pro Ile Phe Ile Ile Gly Ala Phe Val Ala Ile 395 Phe Leu Gly Arg Ala Ala His Ile Tyr Pro Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn Phe Gln His Met Met 420 425

Phe Ser Gly Leu Arg Gly Ala Met Ala Phe Ala Leu Ala Ile Arg Asp 435 440 445

Thr Ala Ser Tyr Ala Arg Gln Met Met Phe Thr Thr Thr Leu Leu Ile 450 455 460

Val Phe Phe Thr Val Trp Ile Ile Gly Gly Gly Thr Thr Pro Met Leu 465 470 475 480

Ser Trp Leu Asn Ile Arg Val Gly Val Asp Pro Asp Xaa Asp Pro Pro 485 490 495

Pro Xaa Xaa Asp Ser Phe Ala Phe Xaa Thr Glu Thr Ala 500 505

<210> 2188

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2188

Met Thr Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu 1 5 10 15

Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser 20 25 30

Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp 35 40 45

Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu
50 55 60

Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His 65 70 75 80

Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala 85 90 95

Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Met 100 105 110

Ser Glu Asp Glu Leu Ile Asn Ile Ile Asp Gly Val Leu Arg Asp Asp 115 120 125

Asp Lys Asn Asn Asp Gly Tyr Ile Asp Tyr Ala Glu Phe Ala Lys Ser 130 135

Leu Gln 145

<210> 2189

<211> 530

<212> PRT

<213> Homo sapiens

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<222> (488)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (490)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (494)
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<222> (495)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2189
Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Arg Gly
Val His Cys Gln Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Gln
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
                            40
Ser Arg Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
Gln Trp Leu Ala Leu Val Leu His Asp Gly Gly Gln Lys Tyr Asn Glu
Asp Val Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
Lys Val Tyr Leu Gln Met Asp Ser Leu Arg Gly Glu Asp Thr Ala Thr
                                105
Tyr Tyr Cys Val Arg Gly Met Trp Glu Gln Leu Pro Ser Tyr Tyr Phe
       115
                            120
                                                125
Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro
Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp
145
Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu
                                    170
```

Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr Ala Arg 185 Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro 250 Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu His Arg 260 265 Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Asp Arg Asp Leu . 310 Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Glu Pro 325 Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro Glu Ser . . 3,45 Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr Phe Arg 360 Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys Asp 390. Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys 405 Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr 425 Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys 440 Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val 470 Asn Val Ser Val Val Met Ala Xaa Val Xaa Gly Pro Cys Xaa Xaa Ala 485 490

Ala Arg Leu Ser Pro Pro Leu Asn Xaa Leu His Ala Pro Pro Lys Lys 500 . 505 510

Lys Lys 530

<210> 2190 ·

<211> 265

<212> PRT

<213> Homo sapiens

<400> 2190

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr 20 25 . 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala 35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile 65 70 . 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg 85 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His 100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys 115 120 125

Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val 130 135 140

Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser 145 150 155 160

Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe 165 170 175

Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro 180 185 190

Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys . 195 200 205

Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly 210 215 220

Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg

225 230 235 240

Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser 245 250 255

Gln Asn Arg Asn Ser Tyr Gly Thr Lys 260 265

<210> 2191

<211> 99

<212> PRT

<213> Homo sapiens

<400> 2191

Met Ala Val Trp Gly Asp Thr Glu Leu Ala Ala Gly Val Phe Cys Phe 1 5 10 15

Phe Leu Phe Phe Cys Phe Leu Tyr Leu Ser Gly Thr Trp Asn Ala Ser 20 25 30

Lys Thr Glu Leu Phe Thr Pro Leu Glu Arg Glu Leu Lys Pro Gly His 35 40 45

Pro Ser Gly Met Leu Ser Gly Ser His Pro His Gly Ala Gln Gln Ala 50 55 60

Lys Ser Thr Gly Leu Lys Leu Ser Leu Pro Ala Gln Gln Ser Glu Val 65 70 .75 80

Asp Leu Gly Cys Ser Ser Leu Val Trp Gly Gly Ala Ser Ala Ile Thr 85 90 95

Glu Ala Leu

<210> 2192

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2192 .

Thr Gly Leu Lys Pro Thr Val Ala Leu Cys Gln Gln Lys Cys Arg Arg 20 25 30

Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser Ser Asp Phe Val Leu Ala 35 40 45

Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly Ser Leu His Ala Thr 50 55 60

Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly Asn Leu Ala Ile Gln Gln 65 70 75 80

Ala Gly Lys Asn Met Ser Ala Arg Leu Thr Val Val Cys Lys Gln Cys 85 90 95

- Pro Leu Arg Arg Gly Leu Asn Tyr Ile Ile Met Gly Gln Val Gly 100 105 110
- Glu Asp Gly Arg Gly Lys Ile Met Pro Asn Ser Phe Ile Met Met Phe 115 120 125
- Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala Leu Lys Asn Lys Gln Cys 130 135 140
- <210> 2193
- <211> 294
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (93)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> SITE
- <222> (97)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 2193
- Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn Gly Phe 1 5 10 15
- Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr 20 25 30
- Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn 35 40 45
- Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile 50 55
- Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp 65 70 75 80
- Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Xaa Val Phe Asn 85 90 95
- Xaa Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp 100 105 110
- Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln
 115 120 125
- Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr 130 135 140

Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly Ser Leu His Ala Thr Val Ser Ile Ile 'Asn Ile Tyr Lys Glu Gly 215 Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr 230 235 Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile 250 Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala 280 Leu Lys Asn Lys Gln Cys 290 <210> 2194 <211> 487 <212> PRT <213> Homo sapiens <400> 2194 . Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile 40 Ser Ser Gly Gly His Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu Trp Ile Gly Tyr Ile Ser Tyr Asn Gly Val Thr Tyr Tyr 75

Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Gln 85 90 95

Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala 100 105

Val Tyr Tyr Cys Ala Lys Asp His Arg Ala Thr Arg Asp Gly Tyr Gln

		115		-			120					125			
Leu	Glu 130	Tyr	Arg	Gly	Phe	Asp 135	Tyr	Trp	Gly	Gln	Gly 140	Ile	Leu	Val	Thr
Val 145	Ser	Ser	Ala	Ser	Pro 150	Thr	Ser	Pro	Lys	Val 155	Phe	Pro	Leu	Ser	Leu 160
Asp	Ser	Thr	Pro	Gln 165	Asp	Gly	Asn	Val	Val 170	Val	Ala	Cys	Leu	Val 175	Gln
Gly	Phe	Phe	Pro 180	Gln	Glu	Pro	Leu	Ser 185	Val	Thr	Trp	Ser	GIu 190	Ser	Gly
Gln	Asn	Val 195	Thr	Ala	Arg	Asn	Phe 200	Pro	Pro	Ser	Gln	Asp 205	Ala	Ser	Gly
Asp	Leu 210	Tyr	Thr	Thr	Ser	Ser 215	Gln	Leu	Thr	Leu	Pro 220	Ala	Thr	Gln	Cys
Pro 225	Asp	Gly	Lys	Ser	Val 230	Thr	Cys	His	Val	Lys 235	His	Tyr	Thr	Asn	Pro 240
Ser	Gln	Asp	Val	Thr 245	Val	Pro	Cys	Pro	Val 250	Pro	Pro	Pro	Pro	Pro 255	Cys
Cys	His	Pro	Arg 260	Leu	Ser	Leu	His	Arg 265	Pro	Ala	Leu	Glu	Asp 270	Leu	Leu
Leu	Gly	Ser 275	Glu	Ala	Asn	Leu	Thr 280	Cys	Thr	Leu	Thr	Gly 285	Leu	Arg	Asp
Ala	Ser 290	Gly	Ala	Thr	Phe	Thr 295	Trp	Thr	Pro	Ser	Ser 300	Gly	Lys	Ser	Ala
Val 305.	Gln	Gly	Pro	Pro	Glu 310	Arg	Asp	Leu	Суз	Gly 315	Cys	Tyr	Ser	Val	Ser 320
Ser	Val	Leu ·	Pro	Gly 325	Cys	Ala	Gln	Pro	Trp 330	Asn	His	Gly	Glu	Thr 335	Phe
Thr	Cys	Thr	Ala 340	Ala	His	Pro	Glu	Leu 345	Lys	Thr	Pro	Leu	Thr 350	Ala	Asn
Ile	Thr	Lys 355	Ser	Gly	Asn	Thr	Phe 360	Arg	Pro	Glu	Val	His 365	Leu	Leu	Pro
Pro	Pro 370	Ser	Glu	Glu	Ļeu	Ala 375	Leu	Asn	Glu	Leu	Val 380	Thr	Ļeu	Thr	Суз
Leu 385	Ala	Arg	Gly	Phe	Ser 390	Pro	Lys	Asp	Val	Leu 395	Val	Arg	Trp	Leu	Gln 400
Gly	Ser	Gln	Glu	Leu 405	Pro	Arg	Glu	Lys	Tyr 410	Leu	Thr	Trp	Ala	Ser 415	Arg
Gln	Glu -	Pro	Ser 420	Gln	Gly	Thr	Thr	Thr 425	Phe	Ala	Val	Thṛ	Ser 430	Ile	Leu
Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys	Gly	Asp	Thr	Phe	Ser	Cys	Met

435 440 445

Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp 450 455 460

Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala 465 470 475 480

Glu Val Asp Gly Thr Cys Tyr 485

<210> 2195

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2195

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp 1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr 20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala 35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile 65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His 100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys 115 120 125

Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met Leu Ala Lys Ser 130 135 140

Ile Ala Asn Cys Gln Val Glu Leu Leu Glu Asn Cys Gly His Ser Val 145 150 155 160

Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile Ile Asp Phe Leu 165 170 175

Ala Ser Val His Asn Thr Asp Asn Asn Lys Lys Leu Asp 180 185

<210> 2196

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2196

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp 20 25 30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu 35 40 45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile 50 60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr 65 70 75 80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu 85 90 95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp 100 105 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe 115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn 130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp 145 150 155

Gly Thr Phe Ser Lys Leu Ser Leu Glu Glu Leu Ser Leu Ala Glu . 165 . 170 . 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe 180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala 195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala 210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His 225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys 245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu 260 265 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys 275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe 290 295

<210> 2197

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2197

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu

1 5 10 15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
20 25 30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu 35 40 45 .

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile 50 55 60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr 65 70 75 80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu . 85 90 95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp 100 105 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe 115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn 130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp 145 150 155 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
165 170 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe 180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala 195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala 210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His 225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu 260 265 270

Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys

275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe 290 295

<210> 2198

<211> 42

<212> PRT

<213> Homo sapiens

<400> 2198

Met Glu Cys Lys Lys Arg Ile Gln Leu Ile Met Leu Ala Ser Ile Val 1 5 10 15

Arg Leu Pro Pro Thr Glu Gln Ser Gly Leu Leu Lys Thr Arg Phe His 20 25 30

Asn Phe Cys Gln Arg Asn Leu Gln Ser Ser 35

<210> 2199

<211> 472

<212> PRT

<213> Homo sapiens

<400> 2199

Met Ile Arg Thr Arg Arg Gly Trp Ser Ser Met Trp Pro Trp Ile Gly
1 5 10 15

Val Gly Tyr Leu Ala Gly Cys Leu Val His Ala Leu Gly Glu Lys Gln
20 25 30

Pro Glu Leu Gln Ile Ser Glu Arg Asp Val Leu Cys Val Gln Ile Ala 35 40

Gly Leu Cys His Asp Leu Gly His Gly Pro Phe Ser His Met Phe Asp 50 60

Gly Arg Phe Ile Pro Leu Ala Arg Pro Glu Val Lys Trp Thr His Glu 65 70 75 80

Gln Gly Ser Val Met Met Phe Glu His Leu Ile Asn Ser Asn Gly Ile 85 90 95

Lys Pro Val Met Glu Gln Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys
100 105 110

Phe Ile Lys Glu Gln Ile Val Gly Pro Leu Glu Ser Pro Val Glu Asp 115 120 125

Ser Leu Trp Pro Tyr Lys Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr
130 135 140

Glu Ile Val Ser Asn Lys Arg Asn Gly Ile Asp Val Asp Lys Trp Asp 145 150 155 · 160

Tyr Phe Ala Arg Asp Cys His His Leu Gly Ile Gln Asn Asn Phe Asp 170 Tyr Lys Arg Phe Ile Lys Phe Ala Arg Val Cys Glu Val Asp Asn Glu Leu Arg Ile Cys Ala Arg Asp Lys Glu Val Gly Asn Leu Tyr Asp Met Phe His Thr Arg Asn Ser Leu His Arg Arg Ala Tyr Gln His Lys Val Gly Asn Ile Ile Asp Thr Met Ile Thr Asp Ala Phe Leu Glu Ala Asp Asp Tyr Ile Glu Ile Thr Gly Ala Gly Gly Lys Lys Tyr Arg Ile Ser Thr Ala Ile Asp Asp Met Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile 265 Phe Leu Glu Ile Leu Tyr Ser Thr Asp Pro Lys Leu Lys Asp Ala Arg 280 Glu Ile Leu Lys Gln Ile Glu Tyr Arg Asn Leu Phe Lys Tyr Val Gly Glu Thr Gln Pro Thr Gly Gln Ile Lys Ile Lys Arg Glu Asp Tyr Glu Ser Leu Pro Lys Glu Val Ala Ser Ala Lys Pro Lys Val Leu Leu Asp 330 Val Lys Leu Lys Ala Glu Asp Phe Ile Val Asp Val Ile Asn Met Asp 345 Tyr Gly Met Gln Glu Lys Asn Pro Ile Asp His Val Ser Phe Tyr Cys 360 Lys Thr Ala Pro Asn Arg Ala Ile Arg Ile Thr Lys Asn Gln Val Ser 375 Gln Leu Leu Pro Glu Lys Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys 395 . 400 Lys Lys Val Asp Arg Lys Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg Asn Phe Thr Lys Pro Gln Asp Gly Asp Val 420 425 Ile Ala Pro Leu Ile Thr Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp Pro Met 470

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<210> 2200
<211> 626
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (353)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (354)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 2200
Met Gln Arg Ala Asp Ser Glu Gln Pro Ser Lys Arg Pro Arg Cys Asp
                                     10
Asp Ser Pro Arg Thr Pro Ser Asn Thr Pro Ser Ala Glu Ala Asp Trp
                                25
Ser Pro Gly Leu Glu Leu His Pro Asp Tyr Lys Thr Trp Gly Pro Glu
Gln Val Cys Ser Phe Leu Arg Arg Gly Gly Phe Glu Glu Pro Val Leu
Leu Lys Asn Ile Arg Glu Asn Glu Ile Thr Gly Ala Leu Leu Pro Cys
                    70
Leu Asp Glu Ser Arg Phe Glu Asn Leu Gly Val Ser Ser Leu Gly Glu
Arg Lys Lys Leu Leu Ser Tyr Ile Gln Arg Leu Val Gln Ile His Val
Asp Thr Met Lys Val Ile Asn Asp Pro Ile His Gly His Ile Glu Leu
                            120
His Pro Leu Leu Val Arg Ile Ile Asp Thr Pro Gln Phe Gln Arg Leu
Arg Tyr Ile Lys Gln Leu Gly Gly Gly Tyr Tyr Val Phe Pro Gly Ala
               · 150
                                        155
Ser His Asn Arg Phe Glu His Ser Leu Gly Val Gly Tyr Leu Ala Gly
Cys Leu Val His Ala Leu Gly Glu Lys Gln Pro Glu Leu Gln Ile Ser
Glu Arg Asp Val Leu Cys Val Gln Ile Ala Gly Leu Cys His Asp Leu
```

		195					200					205			
Gly	His 210	Gly	Pro	Phe	Ser	His 215	Met	Phe	Asp	Gly	Arg 220	Phe	Ile	Pro	Leu
Ala 225	Arg	Pro	Glu	Val	Lys 230	Trp	Thr	His	Glu	Gln 235	Gly	Ser	Val	Met	Met. 240
Phe	Glu	His	Leu	Ile 245	Asn	Ser	Asn	Gly	Ile 250	Lys	Pro	Val	Met	Glu 255	Gln
Tyr	Gly	Leu	Ile 260	Pro	Glu	Glu	Asp	Ile 265	Cys	Phe	Ile	Lys	Glu 270	Gln	Ile
Val	Gly	Pro 275	Leu	Glu	Ser	Pro	Val 280	Glu	Asp	Ser	Leu	Trp 285	Pro	Tyr	Lys
Gly	Arg 290	Pro	Glu	Asn	Lys	Ser 295	Phe	Leu	Tyr	Glu	Ile 300	Val	Ser	Asn	Lys
Arg 305	Asn	Gly.	Ile	Asp	Val 310	Asp	Lys	Trp	Asp	Tyr 315	Phe	Ala	Arg	Asp	Cys 320
				325					330	Tyr		-		335	
		•	340			•		345		Leu			350	,	
		355					360			Xaa		365			•
	370					375		•		Gly	380			_	
385		•			390					Asp. 395					400
				405					410	.Thr				415	
			420	•				425		Phe			430		
		435					440			Glu		445	•		
	450					455	•			Glu	460				
465					470					Ser 475					480
				485					490	Val		٠.		495	
			500					505		Tyr			510		
Asn	Pro	Ile	Asp	His	Val	Ser	Phe	Tyr	Cys	Lys	Thr	Ala	Pro	Asn	Arg

1462

515 520 525

Ala Ile Arg Ile Thr Lys Asn Gln Val Ser Gln Leu Leu Pro Glu Lys 530 540

Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys Lys Lys Val Asp Arg Lys 545 550 555

Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg 565 570 575

Asn Phe Thr Lys Pro Gln Asp Gly Asp Val Ile Ala Pro Leu Ile Thr
580 585 590

Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr 595 600 605

Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp 610 615 620

Pro Met 625

<210> 2201

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

. <400> 2201

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 . 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile 85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Xaa 115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 130 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 145 150 150 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 210 . 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 225 230 235 240

Ile Phe Pro Ser Ala 245

<210> 2202

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2202

Met Gly Val Asn Lys Val Leu Phe Thr Phe Phe Phe Ser Ser Leu
1 10 15

Leu Asp Gly Val Gly Thr Ser His Ser Leu Ala Ser Phe Pro His Thr 20 25 30

<210> 2203

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2203

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys 35 40

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 225 230 235 240

Ile Phe Pro Ser Ala

<210> 2204

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2204

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 20 25 -30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Gly Arg Pro Gly Leu Lys 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile 85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr 145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 225 230 235 240

Ile Phe Pro Ser Ala 245

<210> 2205

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2205

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile 85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln

100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 225 230 235 240

Ile Phe Pro Ser Ala

<210> 2206

<211> 245

<212> PRT

<213> Homo sapiens

. <400> 2206

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 . 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys 35 40 45

Gly Glu Glu Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile 85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 115 . 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr 145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val 165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 225 230 235

Ile Phe Pro Ser Ala 245

<210> 2207

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> .

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2207

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser 1 5 10

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys 20 . 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Gly Arg Pro Gly Xaa Lys
35 40 45

Xaa Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly 50 55 . 60

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile 65 70 . 75 80

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln 85 90 95

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly 105 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr 120 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr 135 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr 165 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln 185 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly 200 205 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu 215 Ile Phe Pro. Ser Ala 225 <210> 2208 <211> 207 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (75) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> .(77) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (112) <223> Xaa equals any of the naturally occurring L-amino acids Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp 35 40 .

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala 50 55

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Xaa Gly Xaa Ala Glu Ile 65 70 75 80

Pro Val Ser Val His Gly His Ser Ala Asp Pro Pro Ala Pro Cys Thr 85 90 95

Gln Gln Pro Asp Gln Ile Gln Arg Gly Pro His Gln Pro Ala Glu Xaa 100 105 110

Tyr Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr 115 120 125

Tyr Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu 130 135 140

Tyr Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys 145 150 155 160

Thr Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly
165 170 175

Glu Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile 180 185 190

Gln Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp 195 200 205

<210> 2209

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2209

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp

1 5 10 15

Leu Arg Gly Ala Arg Cys Asp Met Gln Met Thr Gln Ser Pro Ser Ser 20 , 25 30

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser 35 40 45

Gln Ser Ile Gly Lys Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Gln
50 60

Ala Pro Lys Leu Leu Ile Ser Gly Ala Ser Ile Leu Gln Thr Gly Val 65 70 75 80

Pro Ser Arg Phe Ser Gly Ser Gly Ser Ala Thr Tyr Phe Thr Leu Thr 85 90 95

Ile Asn Asp Leu His Pro Glu Asp Ser Ala Thr Tyr Tyr Cys Gln Gln
100 105 110

Asp Tyr Thr Thr Pro Leu Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

115 120 125

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu 130 135 140

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe . 145 150 155 160

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
165 170 175

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser 180 185 190

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
195 200 205

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser 210 215 220

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys 225 230 235

<210> 2210

<211> 234

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2210

Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Trp Leu Ser 1 5 10

Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser 20 · 25 30

Ala Ser Leu Gly Asp Ser Val Thr Ile Thr Cys Gln Ala Ser Gln Asp 35 40 45

Ile Ala Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro 50 55 60

Lys Leu Val Ile Phe Asp Gly Ser Ile Leu His Thr Gly Val Pro Ser 65 70 75 80

Arg Phe Ser Gly Gly Ser Gly Thr His Phe Thr Phe Thr Ile Asn 85 90 95

Asn Leu Gln Pro Asp Asp Val Ala Thr Tyr Ser Cys Gln Gln Tyr Asn 100 105 110

Thr Phe Pro Leu Thr Phe Gly Xaa Gly Thr Lys Val Glu Ile Lys Arg 115 120 125

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln 130 135 140

Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr 145 150 155 160

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser 165 170 175

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr 180 185 190

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys 195 200 205

His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro 210 215 220

Val Thr Lys Ser Phe Asn Arg Gly Glu Cys 225 · 230

<210> 2211

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2211

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu 1 5 10 15

Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp 35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala 50 55 60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Arg Tyr Lys Gln Lys Phe Gln 65 70 75 80

Ser Val Phe Thr Val Thr Arg Gln Thr His Gln Pro Pro Ala Pro Asn 85 90 95

Ser Leu Ile Arg Phe Asn Ala Val Leu Thr Asn Pro Gln Gly Asp Tyr 100 105 110

Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr Tyr 115 120 125

Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu Tyr 130 140

Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys Thr 145 150 155 160

Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly Glu

165 170 175

Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile Gln 180 185 190

Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp 195 200 205

<210> 2212

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2212

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu 1 5 10 15

Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp 35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala 50 55 60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly Leu 65 70 75 80

Pro Gly His Pro Gly Lys Asn Gly Pro Met Gly Pro Pro Gly Met Pro
85 90 95

Gly Val Pro Gly Pro Met Gly Ile Pro Gly Glu Pro Gly Glu Glu Gly
100 105 110

Arg Tyr Lys Gln Lys Phe Gln Ser Val Phe Thr Val Thr Arg Gln Thr 115 120 125

His Gln Pro Pro Ala Pro Asn Ser Leu Ile Arg Phe Asn Ala Val Leu 130 135 140

Thr Asn Pro Gln Glu Ile Met Thr Arg Ala Leu Ala Ser Ser Pro Ala 145 150 155 160

Lys Ser Pro Ala Ser Thr Thr Leu Ser Thr Thr Arg Arg Ile Gln Pro 165 170 175

Thr Cys Ala Cys Cys Cys Thr Ala Ala Ala Ser Lys Trp Ser Pro Ser 180 185 190

Val Ala Thr Arg Pro Lys Pro Ile Arg Ser Thr Arg Ala Val Cys Cys 195 200 205

<210> 2213

<211> 263

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2213

Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Pro
1 5 10 15

Leu Leu Pro Leu Leu Cys Pro Pro Thr Xaa Gln Gly Asp Cys Ser
20 25 30

Phe Pro Pro Glu Leu Pro Asn Ala Ile Gln Ser Val Gly Asp Gln Gln 35 40 45

Ser Phe Pro Glu Lys Phe Thr Val Thr Tyr Lys Cys Lys Glu Gly Phe 50 55 60

Val Lys Val Pro Gly Lys Ala Asp Ser Val Val Cys Leu Asn Asn Lys 65 70 75 80

Trp Ser Glu Val Ala Glu Phe Cys Asn Arg Ser Cys Asp Val Pro Thr 85 90 95

Arg Leu Gln Phe Ala Ser Leu Lys Lys Ser Phe Thr Lys Gln Asn Xaa 100 105 110

Phe Pro Val Gly Ser Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr Gln
115 120 125

Arg Asp His Leu Leu Ser Gly Lys Leu Thr Cys Leu Leu Asn Phe Thr 130 140

Trp Ser Lys Pro Asp Glu Phe Cys Lys Arg Lys Ser Cys Pro Asn Pro 145 150 155 160

Gly Asp Leu Arg His Gly His Val Asn Ile Pro Thr Asp Ile Leu Tyr 165 170 175

Ala Ala Val Ile His Phe Ser Cys Asn Lys Gly Tyr Arg Leu Val Gly
180 185 190

Ala Ala Ser Ser Tyr Cys Ser Ile Val Asn Asp Asp Val Gly Trp Ser 195 200 205

Asp Pro Leu Pro Glu Cys Gln Glu Ile Phe Cys Pro Glu Pro Pro Lys 210 215 . 220

Ile Ser Asn Gly Val Ile Leu Asp Gln Gln Asn Thr Tyr Val Tyr Gln 225 230 235 240

Gln Ala Val Lys Tyr Glu Cys Ile Lys Gly Phe Thr Leu Ile Gly Glu 245 250 . 255

Asn Ser Asp Leu Leu Tyr Cys 260

<210> 2214

<211> 55

<212> PRT

<213> Homo sapiens

<400> 2214

Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Pro 1 5 10 15

Leu Leu Pro Leu Leu Cys Pro Pro Thr Gly Arg Val Thr Ala Ala
20 25 30

Phe Pro Gln Ser Tyr Leu Met Pro Tyr Lys Val Trp Val Thr Asn Arg 35 40 45

Val Phe Leu Lys Asn Ser Gln 50 55

<210> 2215

<211> 350

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2215

Met Ala Xaa Xaa Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn 20 25 30

Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu 35 40 45

Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala 50 60

Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val 65 70 75 80

Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser 105 Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala 120 Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe Glu Asp Leu Ser Val Thr Leu Arg Gln Leu Arg Asn Arg Leu Phe Gln Glu Asn Ser Val Leu Ser Ser Leu Pro Leu Asn Ser Leu Ser Arg Asn Asn Glu Val Asp Leu Leu Phe Leu Ser Glu Leu Gln Val Leu His Asp 185 Ile Ser Ser Leu Leu Ser Arg His Lys His Leu Ala Lys Asp His Ser 200 205 Pro Asp Leu Tyr Ser Leu Glu Leu Ala Gly Leu Asp Glu Ile Gly Lys Arg Tyr Gly Glu Asp Ser Glu Gln Phe Arg Asp Ala Ser Lys Ile Leu 230 Val Asp Ala Leu Gln Lys Phe Ala Asp Asp Met Tyr Ser Leu Tyr Gly 250 Gly Asn Ala Val Val Glu Leu Val Thr Val Lys Ser Phe Asp Thr Ser 265 Leu Ile Arg Lys Thr Arg Thr Ile Leu Glu Ala Lys Gln Ala Lys Asn 280 Pro Ala Ser Pro Tyr Asn Leu Ala Tyr Lys Tyr Asn Phe Glu Tyr Ser Val Val Phe Asn Met Val Leu Trp Ile Met Ile Ala Leu Ala Leu Ala · 310

Val Ile Ile Thr Ser Tyr Asn Ile Trp Asn Met Asp Pro Gly Tyr Asp 325. 330 335

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp 340 345 350

<210> 2216

<211> 350

<212> PRT

<213> Homo sapiens

<400> 2216

Met Ala Val Phe Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly

1				5					10					15	
Asn	Glu	Phe	Ser 20	Ile	Leu	Lys	Ser	Pro 25	Gly	Ser	Val	Val	Phe 30	Arg	Asn
Gly	Asn	Trp 35	Pro	Ile	Pro	Gly	Glu 40	Arg	Ile	Pro	Asp	Val 45	Ala	Ala	Leu
Ser	Met 50	Gly	Phe	Ser	Val	Lys 55	Glu	Asp	Leu	Ser	Trp 60	Pro	Gly	Leu	Ala
Va1 65	Gly ·	Asn	Leu	Phe	His 70	Arg	Pro	Arg	Ala	Thr 75	Val	Met	Val	Met	Val 80
Lys	Gly	Val	Asn	Lys 85	Leu	Ala	Leu	Pro	Pro 90	Gly	Ser	Val	Ile	Ser 95	Tyr
Pro	Leu	Glu	Asn 100	Ala	Val	Pro	Phe	Ser 105	Leu	Asp	Ser	Val	Ala 110	Asn	Ser
Ile	His	Ser 115	Leu	Phe	Ser	Glu	Glu 120	Thr	Pro	Val	Val	Leu 125	Gln	Leu	Ala
Pro	Ser 130	Glu	Glu	Arg	Val	Tyr 135	Met	Val	Gly	Lys	Ala 140	Asn	Ser	Val	Phe
Glu 145.	Asp	Leu	Ser	Val	Thr 150	Leu	Arg	Gln	Leu	Arg 155	Asn	Arg	Leu	Phe	Gln 160
Glu	Asn	Ser	Val	Leu 165	Ser	Ser	Leu	Pro	Leu 170	Asn	Ser	Leu	Ser	Arg 175	Asn
Asn	Glu	Val	Asp 180	Leu	Leu	Phe	Leu	Ser 185	Glu	Leu	Gln	Val	Leu 190	His	Asp
Ile	Ser	Ser 195	Leu	Leu	Ser	Arg	His 200	Ľys	His	Leu	Ala	Lys 205	Asp	His	Ser
Pro	Asp 210	Leu	Tyr	Ser	Leu	Glu 215	Leu	Ala	Gly	Leu	Asp 220	Glu	Ile	Gly	Lys
Arg 225	Tyr	Gly	Glu	Asp	Ser 230	Glu	Gln	Phe	Arg	Asp 235	.Ala	Ser	Lys	Ile	Leu 240
Val	Asp	Ala	Leu	Gln 245	Lys	Phe	Ala	Asp	Asp 250	Met	Tyr	Ser	Leu	Tyr 255	Gly
Gly	Asn	Ala	Val 260	Val	Glu	Leu	Val	Thr 265	Val	Lys	Ser	Phe	Asp 270	Thr	Ser
Leu	Ile	Arg 275	Lys	Thr	Arg	Thr	Ile 280	Leu	Glu	Ala	Lys	Gln 285	Ala	Lys	Asn
Pro	Ala 290	Ser	Pro	Tyr	Asn	Leu 295	Ala	Tyr	Lys	Tyr	Asn 300	Phe	Glu	Tyr	Ser
Val 305	Val	Phe	Asn	Met	Val 310	Leu	Trp	Ile	Met	Ile 315	Ala	Leu	Ala	Leu	Ala 320
Val	Ile	Ile	Thr	Ser	ΤΫ́τ	Asn	Ile		Asn 477	Met	Asp	Pro	Gly	Tyr	Asp

325 330 335 ·

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp 340 345 350

<210> 2217

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2217

Met Cys Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val 1 5 10 15

Tyr Cys Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu 20 25 30

Phe Ser Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val 35 40 45

Thr Pro Ser Ile Leu Gln Leu Met Ala His Asn Lys Xaa Met Val Glu 50 55 60 .

Met Val Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Xaa Cys 65 70 75 80

Asn Ser Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile 85 90 95

Gln Ser Asn Ile Lys His Leu Ser Ala Gly Leu Gln Leu Arg Leu Gln . 100 105 110

Ala Ile Gln Asn His Val Asn His His Ser Leu Arg Thr Leu Pro Gly
115 120 125

Ser Gly Gln Ser Ser Ala Gly Leu Ala Ala Leu Arg Lys Trp Leu Gln 130 135 140

Cys Thr Gln Phe Lys Met Ala Gln Val Glu Ile Gln Ser Ser Glu Ala 145 150 155 160

Ala Ser Gln Phe Tyr Pro Leu 165

<210>. 2218

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2218

Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu Tyr

1 10 15

Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu Gly Tyr
20 25 30

Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala Val Leu 35 40

Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val Gln Leu 50 55 60

Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala Phe Gln 65 70 75 80

Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met Leu 85 90 95

Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro 100 105 110

<210> 2219

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2219

Ile Ser Leu Leu Trp Asn Leu Trp Gln Ser Val Lys Ile Gly Cys Gly

1 5 10 15

Glu Lys Leu Tyr Pro Gly His Thr Lys Asp Ser Arg Asn His Leu Gly 20 25 30

Gln Asn Leu Ser Phe Leu His Phe Ile Tyr Leu Phe Pro Pro His 35 40 45

Ser Thr His Thr Leu Pro Thr Ser Ser Thr Ser Thr Phe Lys His Lys 50 55 60

Asp Val Arg Val Phe Ser Leu Ser Val Ser Trp Arg Thr Gly Cys Trp 65 70 75 80

Glu Arg Lys Gly Gln Met Ser Lys Gly Gly Cys Arg Ala Gly Gln Ala 85 90 95

Asp Ser Gly Gly Xaa Leu Glu Glu Leu Xaa Pro Ser Gln Thr Trp Val 100 105 110

Ser Lys Thr 115

<210> 2220

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (254)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2220

Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Phe Leu

1 5 10 15

Ala Phe Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg 20 25 30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr 35 40 45

Cys Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys 50 55 60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp 65 70 75 80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His 85 90 95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser 100 105 110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr 115 120 125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys 130 135 140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val 145 150 -155 160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly 165 170 175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
. 180 185 190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile 195 200 . 205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His

210 215 220

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser 225 230 235 240

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Xaa Thr Ser 245 250 255

Arg Asn Phe Gln Thr Lys 260

<210> 2221

<211> 514

<212> PRT

<213> Homo sapiens

<400> 2221

Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln Ala Cys Asn Arg 1 5 10 15

Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp Gln Pro Cys Ser 20 25 30

Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val Leu Cys Lys Gln 35 40 45

Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu Thr Phe Cys Ser 50 55 60

Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys Asp Asp Cys Pro 65 70 75 80

Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser Thr Ser Cys Gly 85 90 95

Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys Met Leu Lys Thr 100 105 110

Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro Pro Leu Pro Phe 115 120 125

Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys Ala Arg Pro Gly 130 135 140

Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala Arg Lys Val 145 . 150 . 155 . 160

Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe Val Val Gly Gly 165 170 175

Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu Arg Cys Pro Ala 180 185 190

Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys Asp Gly Gln His 195 $$ 200 $$ 205

Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe Gly Tyr Leu Lys 210 215 220

Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile Gly Gly Asn Arg 250 Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu Glu Glu Val Leu 265 Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln Thr His Lys His 280 Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser Trp Glu Ala Gln 330 · 335 Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr Glu Gln Arg Arg 360 Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro Glu Glu Leu Arg 375 Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His Val Ser Gly Phe 425 Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala Gly Gly Ser 440 Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys Ile Ser Ala Ala 455 Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu Gly Gln Thr Val 475 Ala Leu Ala Ser Gly Thr Leu Ser Val Phe Cys Thr Val Arg Pro Ser Ala Thr Gln Gly Leu Pro Ser Ala Gly Pro Gly Met Glu Lys Lys Ser 500 505 Val Gln

<210> 2222

<211> 1745

<212> PRT

<213> Homo sapiens

<400> 2222

Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu 1 5 10

Ala Phe Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg 20 25 30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr 35 40 45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys 50 55.

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp 65 70 75 80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His 85 90 95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser 100 105 110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr 115 120 125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys 130 135 140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val 145 150 155 160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly 165 170

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr 180 185 190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile 195 200 205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His 210 215

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser 225 230 235 240

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe 245 250 255

Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr 260 265 270

Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr 275 280 285

Val Gln Phe Ile Phe Tyr Gln Pro Ile Ile His Arg Trp Arg Glu Thr Asp Phe Phe Pro Cys Ser Ala Thr Cys Gly Gly Gly Tyr Gln Leu Thr Ser Ala Glu Cys Tyr Asp Leu Arg Ser Asn Arg Val Val Ala Asp Gln Tyr Cys His Tyr Tyr Pro Glu Asn Ile Lys Pro Lys Pro Lys Leu Gln Glu Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ala Thr Pro Trp Thr Ala Cys Ser Ser Ser Cys Gly Gly Gly Ile Gln Ser Arg Ala Val Ser Cys Val Glu Glu Asp Ile Gln Gly His Val Thr Ser Val Glu Glu Trp Lys Cys Met Tyr Thr Pro Lys Met Pro Ile Ala Gln Pro Cys Asn 405 410 Ile Phe Asp Cys Pro Lys Trp Leu Ala Gln Glu Trp Ser Pro Cys Thr 425 Val Thr Cys Gly Gln Gly Leu Arg Tyr Arg Val Val Leu Cys Ile Asp His Arg Gly Met His Thr Gly Gly Cys Ser Pro Lys Thr Lys Pro His 455 Ile Lys Glu Glu Cys Ile Val Pro Thr Pro Cys Tyr Lys Pro Lys Glu Lys Leu Pro Val Glu Ala Lys Leu Pro Trp Phe Lys Gln Ala Gln Glu 490 Leu Glu Glu Gly Ala Ala Val Ser Glu Glu Pro Ser Phe Ile Pro Lys 505 Ala Trp Ser Ala Cys Thr Val Thr Cys Gly Val Gly Thr Gln Val Arg Ile Val Arg Cys Gln Val Leu Leu Ser Phe Ser Gln Ser Val Ala Asp Leu Pro Ile Asp Glu Cys Glu Gly Pro Lys Pro Ala Ser Gln Arg Ala Cys Tyr Ala Gly Pro Cys Ser Gly Glu Ile Pro Glu Phe Asn Pro Asp 565 Glu Thr Asp Gly Leu Phe Gly Gly Leu Gln Asp Phe Asp Glu Leu Tyr 585 Asp Trp Glu Tyr Glu Gly Phe Thr Lys Cys Ser Glu Ser Cys Gly Gly 600 605

Gly Val Gln Glu Ala Val Val Ser Cys Leu Asn Lys Gln Thr Arg Glu 615 Pro Ala Glu Glu Asn Leu Cys Val Thr Ser Arg Arg Pro Pro Gln Leu 630 . 635 Leu Lys Ser Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ile Gly 645 650 Lys Trp Ser Pro Cys Ser Leu Thr Cys Gly Val Gly Leu Gln Thr Arg 665 Asp Val Phe Cys Ser His Leu Leu Ser Arg Glu Met Asn Glu Thr Val 680 Ile Leu Ala Asp Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln Ala Cys Asn Arg Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp Gln Pro Cys Ser Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu Val Leu Cys Lys Gln Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu 745 Thr Phe Cys Ser Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys 760 Asp Asp Cys Pro Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser 775 Thr Ser Cys Gly Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys Met Leu Lys Thr Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro 810 Pro Leu Pro Phe Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys Ala Arg Pro Gly Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala 840 Ala Arg Lys Val Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe Val Val Gly Gly Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu 870 . Arg Cys Pro Ala Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys Asp Gly Gln His Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe Gly Tyr Leu Lys Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr 920

Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile 930 935 940

- Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu 945 950 955 960
- Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln 965 970 975
- Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu 980 985 990
- Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val 995 1000 1005
- Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser 1010 . 1015 . 1020
- Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp 1025 1030 1035 1040
- Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr 1045 \$1050\$
- Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro 1060 1065 1070
- Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala 1075 1080 1085
- Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His 1105 1110 1115 1120
- Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala 1125 1130 1135
- Gly Gly Gly Ser $\mbox{Arg Pro His Arg Lys Pro Thr Ile Leu}$ Arg \mbox{Lys} $\mbox{1140}$ $\mbox{1145}$ $\mbox{1150}$
- Ile Ser Ala Ala Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu 1155 1160 1165
- Gly Gln Thr Val Ala Leu Ala Ser Gly Thr Leu Ser Val Leu Leu His 1170 1180
- Cys. Glu Ala Ile Gly His Pro Arg Pro Thr Ile Ser Trp Ala Arg Asn 1185 1190 1195 1200
- Gly Glu Glu Val Gln Phe Ser Asp Arg Ile Leu Leu Gln Pro Asp Asp 1205 1210 1215
- Ser Leu Gln Ile Leu Ala Pro Val Glu Ala Asp Val Gly Phe Tyr Thr 1220 1225 1230
- Cys Asn Ala Thr Asn Ala Leu Gly Tyr Asp Ser Val Ser Ile Ala Val 1235 1240 1245

Thr Leu Ala Gly Lys Pro Leu Val Lys Thr Ser Arg Met Thr Val Ile 1250 \cdot 1255 1260

- Asn Thr Glu Lys Pro Ala Val Thr Val Asp Ile Gly Ser Thr Ile Lys 1265 1270 1275 1280
- Thr Val Gln Gly Val Asn Val Thr Ile Asn Cys Gln Val Ala Gly Val 1285 1290 1295
- Pro Glu Ala Glu Val Thr Trp Phe Arg Asn Lys Ser Lys Leu Gly Ser 1300 1305 1310
- Pro His His Leu His Glu Gly Ser Leu Leu Leu Thr Asn Val Ser Ser 1315 1320 1325
- Ser Asp Gln Gly Leu Tyr Ser Cys Arg Ala Ala Asn Leu His Gly Glu 1330 1340
- Leu Thr Glu Ser Thr Gln Leu Leu Ile Leu Asp Pro Pro Gln Val Pro 1345 1350 1355 1360
- Thr Gln Leu Glu Asp Ile Arg Ala Leu Leu Ala Ala Thr Gly Pro Asn 1365 1370 1375
- Leu Pro Ser Val Leu Thr Ser Pro Leu Gly Thr Gln Leu Val Leu Asp 1380 1385 1390
- Pro Gly Asn Ser Ala Leu Leu Gly Cys Pro Ile Lys Gly His Pro Val 1395 1400 1405
- Pro Asn Ile Thr Trp Phe His Gly Gly Gln Pro Ile Val Thr Ala Thr 1410 1425 1420
- Gly Leu Thr His His Ile Leu Ala Ala Gly Gln Ile Leu Gln Val Ala 1425 1430 1435 1440
- Asn Leu Ser Gly Gly Ser Gln Gly Glu Phe Ser Cys Leu Ala Gln Asn 1445 1450 1455
- Glu Ala Gly Val Leu Met Gln Lys Ala Ser Leu Val Ile Gln Asp Tyr 1460 1465 1470
- Trp Trp Ser Val Asp Arg Leu Ala Thr Cys Ser Ala Ser Cys Gly Asn 1475 1480 1485
- Arg Gly Val Gln Gln Pro Arg Leu Arg Cys Leu Leu Asn Ser Thr Glu 1490 1495 1500
- Val Asn Pro Ala His Cys Ala Gly Lys Val Arg Pro Ala Val Gln Pro 1505 1510 1515 1520
- Ile Ala Cys Asn Arg Arg Asp Cys Pro Ser Arg Trp Met Val Thr Ser 1525 1530 1535
- Trp Ser Ala Cys Thr Arg Ser Cys Gly Gly Gly Val Gln Thr Arg Arg 1540 1545 1550
- Val Thr Cys Gln Lys Leu Lys Ala Ser Gly Ile Ser Thr Pro Val Ser 1555 1560 1565

Asn Asp Met Cys Thr Gln Val Ala Lys Arg Pro Val Asp Thr Gln Ala 1570 1580

Cys Asn Gln Gln Leu Cys Val Glu Trp Ala Phe Ser Ser Trp Gly Gln 1585 1590 1595 1600

Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val Gln His Arg Gln 1605 1610 1615

Val Phe Cys Gln Thr Arg Asp Gly Ile Thr Leu Pro Ser Glu Gln Cys 1620 1625 1630

Ser Ala Leu Pro Arg Pro Val Ser Thr Gln Asn Cys Trp Ser Glu Ala 1635 . 1640 1645

Cys Ser Val His Trp Arg Val Ser Leu Trp Thr Leu Cys Thr Ala Thr 1650 1655 1660

Cys Gly Asn Tyr Gly Phe Gln Ser Arg Arg Val Glu Cys Val His Ala 1665 1670 1675 1680

Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser Trp Gly Pro Arg 1685 1690 1695

Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys Glu Asn Met Glu 1700 1705 . 1710

Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys Gln Leu Lys Leu 1715 1720 1725

Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly Thr Cys Gly Lys 1730 1735 1740

Ala 1745

<210> 2223

<211> 19

<212> PRT

<213> Homo sapiens

<400> 2223

Glu Cys Cys Glu Thr Ala Ala Pro Pro Gly Pro His Arg Arg Pro Glu
1 5 10 15

Ser Gly Gln

<210> 2224

<211> 363

<212> PRT

<213> Homo sapiens

<400> 2224

Met Ala Ala Val Leu Thr Trp Ala Leu Ala Leu Leu Ser Ala Phe Ser 1 5 10 15

Ala Thr Gln Ala Arg Lys Gly Phe Trp Asp Tyr Phe Ser Gln Thr Ser Gly Asp Lys Gly Arg Val Glu Gln Ile His Gln Gln Lys Met Ala Arg Glu Pro Ala Thr Leu Lys Asp Ser Leu Glu Gln Asp Leu Asn Asn Met Asn Lys Phe Leu Glu Lys Leu Arg Pro Leu Ser Gly Ser Glu Ala Pro Arg Leu Pro Gln Asp Pro Val Gly Met Arg Arg Gln Leu Gln Glu Glu 90 Leu Glu Glu Val Lys Ala Arg Leu Gln Pro Tyr Met Ala Glu Ala His 105 Glu Leu Val Gly Trp Asn Leu Glu Gly Leu Arg Gln Gln Leu Lys Pro Tyr Thr Met Asp Leu Met Glu Gln Val Ala Leu Arg Val Gln Glu Leu Gln Glu Gln Leu Arg Val Val Gly Glu Asp Thr Lys Ala Gln Leu Leu Gly Gly Val Asp Glu Ala Trp Ala Leu Leu Gln Gly Leu Gln Ser Arg Val Val His His Thr Gly Arg Phe Lys Glu Leu Phe His Pro Tyr Ala 185 Glu Ser Leu Val Ser Gly Ile Gly Arg His Val Gln Glu Leu His Arg Ser Val Ala Pro His Ala Pro Ala Ser Pro Ala Arg Leu Ser Arg Cys Val Gln Val Leu Ser Arg Lys Leu Thr Leu Lys Ala Lys Ala Leu His 235 Ala Arg Ile Gln Gln Asn Leu Asp Gln Leu Arg Glu Glu Leu Ile Arg Ala Phe Ala Gly Thr Gly Thr Glu Gly Ala Gly Pro Asp Pro Gln

Met Leu Ser Glu Glu Val Arg Gln Arg Leu Gln Ala Phe Arg Gln Asp

Thr Tyr Leu Gln Ile Ala Ala Phe Thr Arg Ala Ile Asp Gln Glu Thr 290 295 300

Glu Glu Val Gln Gln Leu Ala Pro Pro Pro Pro Gly His Ser Ala 305 310 315 320

Phe Ala Pro Glu Phe Gln Gln Thr Asp Ser Gly Lys Val Leu Ser Lys 325 330 335

Leu Gln Ala Arg Leu Asp Asp Leu Trp Glu Asp Ile Thr His Ser Leu 340 345 350

His Asp Gln Gly His Ser His Leu Gly Asp Pro 355 360

<210> 2225

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2225

Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu

1 5 . 10 15

Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
20 25 30

Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp 35 40 45

Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro 50 60

Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro 65 70 75 80

Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala 85 90.

Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu 100 105 110

Ile Gly Glu Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly
115 120 125

Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly 130 135 140

Arg Xaa His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val 145 150 155 160

Ala Phe Leu Asp Asp Arg His Ala Gly Ser Gly Cys Pro Ser Ser Arg 165 170 175

Arg Leu Cys Gly Cys Gly Gly 180

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<210> 2226
 <211> 252
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
' <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids
<400> 2226
Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu .
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
                             40
Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
                                        75
Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
                 85
Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
Ile Gly Glu Xaa His Leu Pro Leu Leu Arg Arg Gln Leu Pro Pro Trp
                            120
Cys Pro His Pro Ala Trp Xaa Gly Ala Gly Pro Ala Ala Gly Pro Gly
                        135
Pro Xaa Pro Arg Arg Ala Leu Leu Pro Ala His Ser Leu His Arg Arg
                                        155
Gly Leu Pro Arg Arg Pro Pro Arg Trp Gln Arg Leu Pro Gln Leu Ser
```

165 170 175

Ala Ala Leu Arg Leu Trp Trp Leu Arg Val Pro Gly Leu Ala Pro Arg 180 185 190

Ser Cys Ser Ala Gly Gly Ala Arg Leu Thr Tyr Leu Leu Glu Thr Trp 195 200 205

Met Gln Arg Gln Arg Gly Gly Glu Trp Ala Gly Ala Thr Ser Ser Glu 210 215 220

Cys Asn Lys Gly His His Ser Pro Gly Lys Lys Lys Lys Lys Lys 235 230 235

Lys Lys Lys Lys Leu Glu Gly Gly Ser Arg Tyr 245 250

<210> 2227

<211> 150

<212> PRT -

<213> Homo sapiens

<400> 2227

Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val 1 5 10 15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr 20 25 30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser 35 \cdot 40 45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp 50 55 60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln 65 70 75 80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn 85 90 95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn 100 105 110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys 115 120 125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro 130 135 140

Ile Ser Ile Met Ile Cys 145 150

<210> 2228

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2228

Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val 1 5 10

Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met
20 25 30

Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu 35 40 45

Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala 50 55 . 60

Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly 65 70 75 80

Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro 85 90 95

Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe 100 105 110

Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu 115 120 125

<210> 2229

<211> 766

<212> PRT

<213> Homo sapiens

<400> 2229

Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala 1 5 10 15

Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val

Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu 35 40 45

Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val . 50 60

Asp Arg Ser Arg Gln Gly Phe Ser Thr Arg Tyr Lys Ile Tyr Arg Glu 65 70 75 80

Phe Gly Arg Trp Lys Val Asn Asn Leu Ala Val Glu Arg Arg Asn Phe 85 90 95

Leu Gly Ser Pro Leu Pro Leu Ala Pro Glu Phe Phe Arg Asn Ile Arg 100 105 110

Leu Leu Gly Arg Arg Pro Thr Leu Gln Gln Ile Thr Glu Asn Leu Ile 115 120 125

Lys Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Glu

	130					135					140				
Glu 145	Ser	Leu	Thr	Ile	Phe 150	Val	Asp	Lys	Arg	Lys 155		Ser	Lys	Arg	Ala 160
Glu	Gly	Ser	Asp	Ser 165	Thr	Thr	Asn	Ser	Ser 170	Ser	Val	Thr	Leu	Glu 175	Thr
Leu	His	Gln	Leu 180	Ala	Ala	Ser	Tyr	Phe 185	Ile	Asp	Ąrg	Asp	Ser 190	Thr	Leu
Arg	Arg	Leu 195	His	His	Ile	Gln	Ile 200	Ala	Ser	Thr	Ala	Ile 205	Lys	Val	Thr
Glu	Thr 210	Arg	Thr	Gly	Pro	Leu 215	Gly	Cys	Ser	Asn	Tyr 220	Asp	Asn	Leu	Asp
Ser 225	Val	Ser	Ser	Val	Leu 230	Val	Gln	Ser	Pro	Glu 235	Asn	Lys	Ile	Gln	Leu 240
Gln	Gly	Leu	Gln	'Val 245	Leu	Leu	Pro	Asp	Туѓ 250	Leu	Gln	Glu	Arg	Phe 255	Val
Gln	Ala	-Ala	Leu 260	Ser	Tyr	Ile	Ala	Cys 265	Asn	Ser	Glu	Gly	Glu 270	Phe	Ile
Суs	ŗλε	Glu 275	Asn	Asp	Суз	Trp	Cys 280	His	Cys	Gly	Pro	Lys 285	Phe	Pro	Glu
Cys	Asn 290	Cys	Pro	Ser	Met.	Asp 295	Ile	Gln	Ala	Met	Glu 300	Glu	Asn	Leu	Leu
Arg 305	Ile	Thr	Glu	Thr	Trp 310	Lys	Ala	Tyr	Asn	Ser 315	Asp	Phe	Glu	Glu	Ser 320
Asp	Glu	Phe	Lys	Leu 325	Phe	Met	Ŀуs	Arg	Leu 330	Pro	Met	Asn	Tyr	Phe 335	Leu
Asn	Thr	Ser	Thr 340	Ile	Met	His	Leu	Trp 345	Thr	Met	Asp	Ser	Asn 350	Phe ,	Gln
		355			Leu		360					365			
Ala	Gln 370	Lys	Ile	Val	His	Lys 375	Leu	Phe	Ser	Leu	Ser 380	Lys	Arg	Cys	His
Lys 385	Gln	Pro	Leu	Ile	Ser 390	Leu	Pro	Arg	Gln	Arg 395	Thr	Ser	Thr	Тут	Trp 400
Leu	Thr	Arg	Ile	Gln 405	Ser	Phe	Leu	Tyr	Cys 410	Asn	Glu	Asn	Gly	Leu 415	Leu
Gly	Ser	Phe	Ser 420		Glu	Thr	His	Ser 425	Суз	Thr	Суз	Pro	Asn 430	Asp	Glr
Val	Val	Cys 435		Ala	Phe	Leu	Pro 440	Cys	Thr	Val ·	Gly	Asp 445	Ala	Ser	Ala

Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn

450, 455 460

Thr Gly Tyr Met Leu Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu 465 470 475 480

Ser Thr Asp His Tyr Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu 485 . 490 495

Met Lys Tyr Leu Leu Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala 500 505 510

Ile Phe Ile Ser Asn Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser515520

Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser 530 540

Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr 545 550 555 560

Lys Asn Ser Thr Leu Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe 565 570 575

Gly Gly Ser His Ser Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser 580 585 590

Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr 595 600 605

Asn Trp Thr Leu Thr Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr 610 615 620 .

Val His Tle Tyr Leu Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly 625 630 635 640

Asn Glu Ser Ile Tyr Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg 645 650 655

Asn Leu Gly Tyr Met Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser 660 665 670

Met His Phe Asp Pro Glu Ala Ile Arg Asp Leu Ile Leu Gln Leu Asp 675 680 685

Tyr Pro Tyr Thr Gln Gly Ser Gln Asp Ser Ala Leu Leu Gln Leu Leu 690 695 700

Glu Ile Arg Asp Arg Val Asn Lys Leu Ser Pro Pro Gly Gln Arg Arg 705 710 715 720

Leu Asp Leu Phe Ser Cys Leu Leu Arg His Arg Leu Lys Leu Ser Thr 725 730 735

Ser Glu Val Val Arg Ile Gln Ser Ala Leu Gln Ala Phe Asn Ala Lys 740 745 750

Leu Pro Asn Thr Met Asp Tyr Asp Thr Thr Lys Leu Cys Ser 755 760 765

<210> 2230

<211> 61

<212> PRT

<213> Homo sapiens

<400> 2230

Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala 1 5 10 15

Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser 20 25 30

Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr 35 40 45

His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln 50 . 55 60

<210> 2231

<211> 133 ·

<212> PRT

<213> Homo sapiens

<400> 2231

Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr 1 5 10 15

Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro 20 25 30

Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile 35 40 45

Leu Leu Val Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly
50 60

Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr 65 70 75 80

Leu Ile Ala Met Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala
' 85 90 95

Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro 100 105 110

Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val 115 120 125

Phe Phe Val Arg Asp 130

<210> 2232

<211> 131.

<212> PRT .

<213> Homo sapiens

<400> 2232

Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu 1 5 10 15

Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn 20 25 30

Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu 35 40 45

Val Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp 50 55 60

Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr Leu Ile 65 70 75 80

Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu 85 90 95

Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp 100 105 110

Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe 115 . 120 . 125

Val Arg Asp 130

<210> 2233

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2233

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu 1 5 15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
20 25 30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu 35 40 45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile 50 55

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr 65 70 75 80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu 85 . 90 95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp 100 105 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe 115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn 130 135 Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp 150 Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu 165 170 Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe 185 Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala . 195 200 205 Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala 215 Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His 230 Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys 250 Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu 265 270 Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys 280 Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe <210> 2234 <211> 158 <212> PRT <213> Homo sapiens <400> 2234 Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu 10 Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala Cys Gly Thr Val Gly Leu Leu Glu His Ser Phe Glu Ile Asp Asp

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
100 105 110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys 115 120 125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser 130 135 140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser 145 150 155

<210> 2235

<211> 58

<212> PRT

<213> Homo sapiens

<400> 2235

Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp

1 10 15

Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln 20 25 30

Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser 35 40 45

Leu Ala Trp Arg Leu Leu Met Ser Ser Gly 50 55

<210> 2236

<211> 71

<212> PRT

<213> Homo sapiens

<400> 2236

Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala 1 5 10 15

Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu
20 25 30

Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val 35 40

Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu 50 60

Ile His Val Gly Leu Leu Asn 65 70

<210> 2237

<211> 605

<212> PRT

<213> Homo sapiens

<400> 2237

Met Gly Arg Leu Leu Arg Ala Ala Arg Leu Pro Pro Leu Leu Ser Pro 1 5 10 15

Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys Val Ala
20 25 30

Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu 35 40 45

Asp Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro 50 55 60

Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly 65 70 75 80

Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln 85 90 . 95

Tyr Phe Trp Glu Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu 100 105 110

Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly 115 120 125

Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser 130 135 140

Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro 145 150 155 160

Glu Val Glu Lys Gln Glu Glu Glu Glu Glu Glu Leu Leu Pro Val 180 185 190

Asn Gly Ser Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu 195 200 205

Thr Ser Ser Ser Gln Thr Pro Gly Ala Thr Lys Ser Arg His Glu Asp 210 . 215 220

Ser Gly Asp Gln Ala Ser Ser Gly Val Glu Val Glu Ser Ser Met Gly 225 230 235 240

Pro Ser Leu Leu Pro Ser Val Thr Pro Thr Thr Val Thr Pro Gly 245 250 255

Asp Gln Asp Ser Thr Ser Gln Glu Ala Glu Ala Thr Val Leu Pro Ala 260 265 270

Ala Gly Leu Gly Val Glu Phe Glu Ala Pro Gln Glu Ala Ser Glu Glu 275 280 285

Ala Thr Ala Gly Ala Ala Gly Leu Ser Gly Gln His Glu Glu Val Pro 290 295 300

Ala Leu Pro Ser Phe Pro Gln Thr Thr Ala Pro Ser Gly Ala Glu His 310 Pro Asp Glu Asp Pro Leu Gly Ser Arg Thr Ser Ala Ser Ser Pro Leu Ala Pro Gly Asp Met Glu Leu Thr Pro Ser Ser Ala Thr Leu Gly Gln Glu Asp Leu Asn Gln Gln Leu Leu Glu Gly Gln Ala Ala Glu Ala Gln 360 Ser Arg Ile Pro Trp Asp Ser Thr Gln Val Ile Cys Lys Asp Trp Ser 375 Asn Leu Ala Gly Lys Asn Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile 390 395 Asp Cys Glu Val Phe Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu Val Glu Glu Val Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp 420 425 His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met 440 Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser Met Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn 470 475 Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Ser Gln Val Arg Ser 490 Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala Ile Cys Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg Arg Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe Val Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp Ser 550 555 Gln Ser Glu Met Gln Glu Lys His Pro Ser Leu Asn Gly Gly Gly Ala 570 575 Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu 595 600

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2238

Met Asp Ala Arg Trp Trp Ala Val Val Leu Ala Ala Phe Pro Ser 1 5 10

Leu Gly Ala Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr 20 25 30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser 35 40 45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn 50 55 60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys 65 70 . 75 80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro 85 90 95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu 100 105 110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val 115 120 125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser 130 140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg 145 150 155 160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
165 170 175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser 180 185 190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser 195 200 205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met 210 · 215 · 220

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr.Glu His Trp Glu Tyr 225 230 235 240

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser 245 250 255

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu 260 265 270

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp 275 280 285

Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe

290 295 300

Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu 305 310 315 320

Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu 325 330 335

Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln 340 345 350

Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr 355 360 365

Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu 370 375 380

Leu Tyr Gly His Thr Val Thr Val Gly Gly Leu Gly Val Ala Val 385 390 395 400

Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys 405 410 415

Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
420 425 430

<210> 2239

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2239

Met Asp Ala Arg Trp Trp Ala Val Val Leu Ala Ala Phe Pro Ser 1 5 10 . . . 15

Leu Gly Ala Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr 20 25 30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser . 35 40 45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn 50 55 60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys 65 70 75 80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro 85 90 95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu 100 105 110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val 115 120 125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg 150 Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln 165 170 . Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser 185 Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser 200 205 Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr 230 Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser 245 250 Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu 265 Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp 275 280 285 Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu 305 310 315 320 Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln . 340 Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr 360 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu 370 375 Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys 405 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val 425

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<210> 2240
 <211> 69
 <212> PRT
 <213> Homo sapiens
<400> 2240
 Met Lys Ala Val Val Leu Leu Lys Ala Phe Ser Phe Ser Leu Cys Ser
 Ala Ile Ser Pro Val Thr Pro Gly Phe Arg Gln Thr Ile Asn Val Leu
 Asp Thr Val Ala Phe Ser Ala Phe Phe Ile Tyr Leu Phe Thr Val Thr
 . 35
                         40
 Ala Ser Ile Asn Phe Tyr Ala Tyr Phe Ser Ser Phe Leu Ala Gly Ala
           . 55
                                      60
 Pro Phe Ile Lys Ile
 65
 <210> 2241
 <211> 57
 <212> PRT
 <213> Homo sapiens
 <400> 2241
 Met Leu Asp Leu Ser Pro Ser Leu Thr Leu Lys Phe Cys Phe Leu His
  1 5 10 15
 Leu Val Phe Leu Pro Phe Lys Val Tyr Cys Gln Leu Leu Gln Glu Leu
 Leu Ser Lys Pro Val Ser Lys Leu Pro Leu Thr Pro Gln Cys Gln Ser
  35 . 40
 Trp Ala Arg Pro Leu Gly Asp Leu Glu
    50
                      55
 <210> 2242
 <211> 145
 <212> PRT
 <213> Homo sapiens
 <400> 2242
 Met Leu Arg Thr Leu Val Leu Lys Gln Thr Leu Asp Leu Leu Pro
 1 5
                  Leu Leu Glu Ala Leu Leu Val Leu Gly Val Pro Gln His Leu Glu Leu
                           25 30
 Gln Pro Leu Pro Val Gln Val Ser Leu Leu Leu Leu Gln Leu Leu Asp
```

35 40 45

Leu Gly Ser Leu Lys Ser His Arg Leu His His Phe His Ser Lys Ala
50 55 60

Leu Gln Leu Pro Val Leu Asp His Leu Asp Phe Gln Asp Phe Gln Leu 65 70 75 80

Pro Trp Gln Gln Val Leu Ser Glu Leu Pro Val Ala Pro Ala Phe Gly 85 90 95

Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Leu Thr Phe Ser 100 105 110

His Trp Leu Phe Leu Ser His Pro Val Asp Thr Phe Gly Asn Ser Gln
115 120 125

Ala Tyr Pro Thr Ser-Leu Ser Ala Leu Gln Ala Ser Ile Asn Cys Asn 130 135 140

Arg 145

<210> 2243

<21:1> 77

<212> PRT

<213> Homo sapiens

<400> 2243

Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp
1 5 10 15

Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Arg
20 25 30

Gln Gln Pro Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn 35 40 45

Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser 50 55 60

Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr
65 70 75

<210> 2244

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2244

Met Tyr Lys Leu Glu Leu Ile Phe Pro Thr Ala Leu Val Leu Pro Ile 1 5 10 15

Leu Val Asn Gly Thr Val Ile Cys Pro Leu Lys Ala Arg Asn Ser Val 20 25 30

Ile Pro Ser Ser Ser Phe Leu Thr Ser Leu Gln Leu Thr Ile Trp Ile

35 40 45

Gln Pro Cys Leu Phe Leu Pro Thr Thr Thr Gly Leu Ser Ser Gly Tyr 50 . 55 60

His Thr Phe Leu Ser Gly Leu His Ser Cys His Ile Ser Phe Ala Thr 65 70 75 80

Ala Ile Pro Gly Cys Leu 85

<210> 2245

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2245

Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Gly Thr
1 5 10 15

Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met
20 25 30

Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser 35 40 45

Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn 50 55 60

Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp
65 70 75 80

Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn 85 90 95

Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu 100 . 105 . 110

Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile 115 120 125

Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala 130 135 140

Ala Ser Ser Val Thr Ile Thr Thr Met His Ser Glu Ala Lys Lys 145 150 155 160

Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr 165 170 175

Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser 180 185 190

Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile 195 200 205

<210> 2246

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2246

Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys 1 5 10 15

Trp His Cys Leu Val Leu Ala Arg Ala Ser Ala Asp Ser Ala Ser Leu 20 . 25 30

Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly 35 40 45

Ala Pro Ser Thr Leu Pro Val Ser Pro Cys Gly Gly Lys Pro Ala Ala 50 55 60

Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro 65 70 75 80

Gly Ala Ser Gly Gly Gly Ala Gly Gly Thr Arg Arg Leu Ala Leu Cys 85 90 95

Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu 100 105 110

Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg 115 120 125

Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser 130 135 140

Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr 145 150 155 160

Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu 165 170 175

Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln 180 185 190

Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly
195 200 205

Ser Thr Ser Leu Ala Ser His 210 215

<210> 2247

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2247

Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Thr Trp Glu Asn

1 5 10 15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu 20 25 30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala 35 40 45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
50 55 60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys 65 70 75 80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala 85 90 95

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys 100 105 110

Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu 115 120 125

Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly 130 135

<210> 2248

<211> 363

<212> PRT

<213> Homo sapiens

<400> 2248

Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn 1 5 10 15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu 20 25 30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala 35 40 45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu 50 60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys 65 70 75 80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala $85 \hspace{1.5cm} 90 \hspace{1.5cm} 95$

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys 100 . 105 110

Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys 115 120 125

Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn 130 135 140

Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser 145 150 155 160

Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln
165 170 175

Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp 180 185 190

Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe 195 200 205

Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe 210 215 220

Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His 225 230 235 240

Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala 245 250 255

Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr 260 265 270

Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn 275 280 285

Ser Thr Gly-Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu 290 295 300

Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu 305 310 315 320

Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys 325 330 335

Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His 340 345 350

Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val 355 360

<210> 2249

<211> 85

<212> PRT

<213> Homo sapiens

<400> 2249

Met Ala Ala Gly Gly Cys Leu Leu Leu Leu Ala Phe Phe Pro Leu Ser 1 5 10

Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser 20 25 30

Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys 35 40 45

Gly Thr Leu Leu Ile Ile Thr Ile Arg His Leu Val Thr Tyr Ile Ile
50 55 60

Val Ile Phe Lys Cys His Met Leu Lys Asn Glu Met Asn Ser Ser Ile 65 70 75 80

Lys Pro His Phe Gln

<210> 2250

<211> 184

<212> PRT

<213> Homo sapiens

<400> 2250

Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Leu Cys Gly Arg

1 10 15

Pro Gly Arg Gly Gln Thr Gln Gln Glu Glu Glu Glu Asp Glu Asp 20 25 30

His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Glu Val Glu Glu 35 40 45

Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg
50 55 60

Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr 65 70 75 80

Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly 85 90

Asn Thr Glu Ser Gly Leu Eu Thr Thr His Ser Thr Trp Cys Thr Asp 100 105 110

Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met
115 120 125

Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser 130 135 140

Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser 145 150 155 160

Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu 165 170 175

Gly Ala Met Gly Ala Arg Arg Pro 180

<210> 2251

<211> 352

<212> PRT

<213> Homo sapiens .

<400> 2251

Met Val Glu Ala Leu Arg Ala Gly Ser Ala Arg Leu Val Ala Ala Pro 1 5 10

Val Ala Thr Ala Asn Pro Ala Arg Cys Leu Ala Leu Asn Val Ser Leu
20 25 30

Arg Glu Trp Thr Ala Arg Tyr Gly Ala Ala Pro Ala Ala Pro Arg Cys 35 40 45

Asp Ala Leu Asp Gly Asp Ala Val Leu Leu Arg Ala Arg Asp Leu 50 60 .

Phe Asn Leu Ser Ala Pro Leu Ala Arg Pro Val Gly Thr Ser Leu Phe 65 70 . 75 80

Leu Gln Thr Ala Leu Arg Gly Trp Ala Val Gln Leu Leu Asp Leu Thr 85 90 . 95

Phe Ala Ala Arg Gln Pro Pro Leu Ala Thr Ala His Ala Arg Trp 100 105 110

Lys Ala Glu Arg Glu Gly Arg Ala Arg Arg Ala Ala Leu Leu Arg Ala 115 120 125

Leu Gly Ile Arg Leu Val Ser Trp Glu Gly Gly Arg Leu Glu Trp Phe 130 135 140

Gly Cys Asn Lys Glu Thr Thr Arg Cys Phe Gly Thr Val Val Gly Asp 145 150 155 160

Thr Pro Ala Tyr Leu Tyr Glu Glu Arg Trp Thr Pro Pro Cys Cys Leu 165 170 175

Arg Ala Leu Arg Glu Thr Ala Arg Tyr Val Val Gly Val Leu Glu Ala 180 · 185 190

Ala Gly Val Arg Tyr Trp Leu Glu Gly Gly Ser Leu Leu Gly Ala Ala 195 200 205

Arg His Gly Asp Ile Ile Pro Trp Asp Tyr Asp Val Asp Leu Gly Ile 210 215 220

Tyr Leu Glu Asp Val Gly Asn Cys Glu Gln Leu Arg Gly Ala Glu Ala 225 230 235 240

Gly Ser Val Val Asp Glu Arg Gly Phe Val Trp Glu Lys Ala Val Glu 245 250 255

Gly Asp Phe Phe Arg Val Gln Tyr Ser Glu Ser Asn His Leu His Val 260 265 270

Asp Leu Trp Pro Phe Tyr Pro Arg Asn Gly Val Met Thr Lys Asp Thr 275 280 285

Trp Leu Asp His Arg Gln Asp Val Glu Phe Pro Glu His Phe Leu Gln 290 295 300

Pro Leu Val Pro Leu Pro Phe Ala Gly Phe Val Ala Gln Ala Pro Asn 305 310 315 320

Asn Tyr Arg Arg Phe Leu Glu Leu Lys Phe Gly Pro Gly Val Ile Glu 325 330 335

Asn Pro Gln Tyr Pro Asn Pro Ala Leu Leu Ser Leu Thr Gly Ser Gly 340 345 350

·<210> 2252

<211> 448

<212> PRT

<213> Homo sapiens

<400> 2252

Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Leu Ala Leu Leu Pro 1 5 10 15

Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala 20 25 30

Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu Gln Arg Ala 35 40 45

Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu 50 60

Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His 65 70 75 80

Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Asn 85 90 95

Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu 100 105 110

Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg 115 120 125

Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala 130 135 140

Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu 145 150 155 160

Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser 165 170 175

Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile 180 185 190

Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val 195 200 205

Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala 210 215 220

Val Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr 225 230 235 240

- Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala Thr 245 250 255
- Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu Gln 260 265 270
- Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu Arg Ser Asp 275 280 285
- Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu Ile Pro Glu Val 290 295 300
- Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val Leu Lys Val Arg Leu 305 310 315 320
- Gly Ala Thr Pro Val Ala Met Leu His Thr Asn Asn Ala Thr Leu Arg 325 330 335
- Leu Gln Pro Phe Val Glu Val Leu Ala Thr Ala Ser Asn Ser Ala Phe 340 · 345 350
- Gln Ser Leu Phe Ser Leu Asp Val Val Val Asn Leu Arg Leu Gln Leu 355 360 365
- Ser Val Ser Lys Val Lys Leu Gln Gly Thr Thr Ser Val Leu Gly Asp 370 375 380
- Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp 385 390 395 400
- Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp 405 410 415
- His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val 420 425 430
- Asn Leu His Tyr Val Pro Leu Arg Ser Leu Ser Met Arg Ala Thr Trp
 435 440 445

<210> 2253

<211> 183

<212> PRT

<213> Homo sapiens

<400> 2253

- Met Glu Pro Glu Glu Gly Thr Pro Leu Trp Arg Leu Gln Lys Leu Pro

 1 10 15
- Ala Glu Leu Gly Pro Gln Leu Leu His Lys Ile Ile Asp Gly Ile Cys
 20 25 30
- Gly Arg Ala Tyr Pro Val Tyr Gln Asp Tyr His Thr Val Trp Glu Ser

35 40 ·45

Glu Glu Trp Met His Val Leu Glu Asp Ile Ala Lys Phe Phe Lys Ala
50 60

Ile Val Gly Lys Asn Leu Pro Asp Glu Glu Ile Phe Gln Gln Leu Asn 65 70 75 80

Gln Leu Asn Ser Leu His Gln Glu Thr Ile Met Lys Cys Val Lys Ser 85 90 95

Arg Lys Asp Glu Ile Lys Gln Ala Leu Ser Arg Glu Ile Val Ala Ile 100 105 110

Ser Ser Ala Gln Leu Gln Asp Phe Asp Trp Gln Val Lys Leu Ala Leu 115 120 125

Ser Ser Asp Lys Ile Ala Ala Leu Arg Met Pro Leu Leu Ser Leu His 130 135 140

Leu Asp Val Lys Glu Asn Gly Glu Val Lys Pro Tyr Ser Ile Glu Met 145 155 160

Ser Arg Glu Glu Leu Gln Asn Leu Ile Gln Ser Leu Glu Ala Ala Asn 165 170 175

Lys Val Val Leu Gln Leu Lys 180

<210> 2254

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2254

Met Pro Cys Gly Arg Gln His Leu Gln Asn Leu Asp Asp Ala Val Asn 1 5 10 15

Gly Ser Ala Trp Thr Ile Leu Leu Leu Thr Glu Asn Phe Leu Arg Asp 20 25 30

Thr Trp Cys Asn Phe Gln Phe Tyr Thr Ser Leu Met Asn Ser Val Asn 35 40

Arg Gln His Lys Tyr Asn Ser Val Ile Pro Met Arg Pro Leu Asn Asn 50 55 60

Pro Leu Pro Arg Glu Arg Thr Pro Phe Ala Leu Gln Thr Ile Asn Ala 65 70 75 80

Leu Glu Glu Glu Ser Arg Gly Phe Pro Thr Gln Val Glu Arg Ile Phe 85 90 95

Gln Glu Ser Val Tyr Lys Thr Gln Gln Thr Ile Trp Lys Glu Thr Arg 100 \$105\$ 110

Asn Met Val Gln Arg Gln Phe Ile Ala 115 120

<210> 2255 <211> 251 <212> PRT . <213> Homo sapiens <400> 2255 Met Leu Phe His Tyr Asp Trp Ile Ser Ile Pro Leu Val Tyr Thr Gln Val Val Thr Ile Ala Val Tyr Ser Phe Phe Ala Leu Ser Leu Val Gly Arg Gln Phe Val Glu Pro Glu Ala Gly Ala Ala Lys Pro Gln Lys Leu 40 Leu Lys Pro Gly Gln Glu Pro Ala Pro Ala Leu Gly Asp Pro Asp Met 55 Tyr Val Pro Leu Thr Thr Leu Leu Gln Phe Phe Phe Tyr Ala Gly Trp Leu Lys Val Ala Glu Gln Ile Ile Asn Pro Phe Gly Glu Asp Asp 90 Asp Phe Glu Thr Asn Gln Leu Ile Asp Arg Asn Leu Gln Val Ser Leu 100 Leu Ser Val Asp Glu Met Tyr Gln Asn Leu Pro Pro Ala Glu Lys Asp 120 Gln Tyr Trp Asp Glu Asp Gln Pro Gln Pro Pro Tyr Thr Val Ala Thr · 135 Ala Ala Glu Ser Leu Arg Pro Ser Phe Leu Gly Ser Thr Phe Asn Leu Arg Met Ser Asp Asp Pro Glu Gln Ser Leu Gln Val Glu Ala Ser Pro Gly Ser Gly Arg Pro Ala Pro Ala Ala Gln Thr Pro Leu Leu Gly Arg 180 185 Phe Leu Gly Val Gly Ala Pro Ser Pro Ala Ile Ser Leu Arg Asn Phe 200 Gly Arg Val Arg Gly Thr Pro Arg Pro Pro His Leu Leu Arg Phe Arg

<210> 2256

Ala Glu Glu Gly Gly Asp Pro Glu Ala Ala Ala Arg Ile Glu Glu Glu

230

Ser Ala Glu Ser Gly Asp Glu Ala Leu Glu Pro 245 250

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2256

Met Arg Pro Gly Lys Lys Val Leu Val Met Gly Ile Val Asp Leu Asn 1 5 10 \cdot 15

Pro Glu Ser Phe Ala Ile Ser Leu Thr Cys Gly Asp Ser Glu Asp Pro 20 25 30

Pro Ala Asp Val Ala Ile Glu Leu Lys Ala Val Phe Thr Asp Arg Gln 35 40 45

Leu Leu Arg Asn Ser Cys Ile Ser Gly Glu Arg Gly Glu Glu Gln Ser 50 . 55 60

Ala Ile Pro Tyr Phe Pro Phe Ile Pro Asp Gln Pro Phe Arg Val Glu 65 70 75 80

Ile Leu Cys Glu His Pro Arg Phe Arg Val Phe Val Asp Gly His Gln
85 90 95

Leu Phe Asp Phe Tyr His Arg Ile Gln Thr Leu Ser Ala Ile Asp Thr 100 105 110

Ile Lys Ile Asn Gly Asp Leu Gln Ile Thr Lys Leu Gly 115 120 125

<210> 2257

<211> 170

<212> PRT

· <213> Homo sapiens

<400> 2257

Met Ile Ser Ile His Asn Glu Glu Glu Asn Ala Phe Ile Leu Asp Thr
1 10 15

Leu Lys Lys Gln Trp Lys Gly Pro Asp Asp Ile Leu Leu Gly Met Phe $20 \hspace{1cm} 25 \hspace{1cm} 30$

Tyr Asp Thr Asp Asp Ala Ser Phe Lys Trp Phe Asp Asn Ser Asn Met 35 40 45

Thr Phe Asp Lys Trp Thr Asp Gln Asp Asp Glu Asp Leu Val Asp 50 55 60

Thr Cys Ala Phe Leu His Ile Lys Thr Gly Glu Trp Lys Lys Gly Asn 65 70 . 75 80

Cys Glu Val Ser Ser Val Glu Gly Thr Leu Cys Lys Thr Ala Ile Pro 85 90 95

Tyr Lys Arg Lys Tyr Leu Ser Asp Asn His Ile Leu Ile Ser Ala Leu 100 105 110

Val Ile Ala Ser Thr Val Ile Leu Thr Val Leu Gly Ala Ile Ile Trp 115 120 125

Phe Leu Tyr Lys Lys His Ser Asp Ser Arg Phe Thr Thr Val Phe Ser 130 135 140

Thr Ala Pro Gln Ser Pro Tyr Asn Glu Asp Cys Val Leu Val Val Gly
145 150 155 160

Glu Glu Asn Glu Tyr Pro Val Gln Phe Asp 165 170

<210> 2258

<211> 595

<212> PRT

<213> Homo sapiens

<400> 2258

Met Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Cys Gly Arg Val

1 10 15

Gly Ala Lys Glu Gln Lys Asp Tyr Leu Leu Thr Met Gln Lys Ser Val 20 25 30

Thr Val Gln Glu Gly Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr 35 40 45

Pro Gln Asn Gly Trp Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe 50 55

Arg Ala Gly Asp His Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn 65 70 75 80

Pro Ala Arg Ala Val Glu Glu Thr Arg Asp Arg Phe His Leu Leu
85 90 95

Gly Asp Pro Gln Asn Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg 100 105 110

Glu Ser Asp Ala Gly Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met 115 120 125

Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser 130 135 140

Gln Asp Leu Leu Ser Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr 145 150 155 160

Val Gln Glu Gly Leu Cys Val Ser Val Pro Cys Ser Val Leu Tyr Pro 165 170 175

His Tyr Asn Trp Thr Ala Ser Ser Pro Val Tyr Gly Ser Trp Phe Lys 180 185 190

Glu Gly Ala Asp Ile Pro Trp Asp Ile Pro Val Ala Thr Asn Thr Pro 195 200 205

Ser Gly Lys Val Gln Glu Asp Thr His Gly Arg Phe Leu Leu Gly 210 215 220

225	Pro	Gin	Thr	Asn	230	Cys	Ser	Leu	Ser	Ile 235	Arg	Asp	Ala	Arg	Lys 240
Gly	Asp	Ser	Gly	Lys 245	Tyr	Tyr	Phe	Gln	Val 250	Glu	Arg	Gly	Ser	Arg 255	Lys
Trp	Asn	Tyr	Ile 260	Tyr	Asp	Lys	Leu	Ser 265	Val	His	Val	Thr	Ala 270	Leu	Thr
His	Met	Pro 275	Thr	Phe	Ser	Ile	Pro 280	Gly	Thr	Leu	Glu	Ser 285	Gly	His	Pro
Arg	Asn 290	Leu	Thr	Суs	Ser	Val 295	Pro	Trp	Ala	Cys	Glu 300	Gln	Gly	Thr	Pro
Pro 305	Thr	Ile	Thr	Trp	Met 310	Gĺy	Ala	Ser	Val	Ser 315	Ser	Leu	Asp	Pro	Thr 320
				325	Met				330					335	
			340		Cys		-	345					350		
	•	355			Arg		360					365			
	370				Gln `	375					380	-	•		,
385					Ser 390	,			•	395					400
				405	Asn				410					415	
	•		420		Pro			425				•	430		
	-	435			Val		440					445			
	450			-	Ser	455		٠			460	•			
465					Lys 470			•		475					480
				485	Gly				490					495	
			500		Val			505					510		
		515			Asp		520					525			
Gly	Ser 530	Ala	Ser	Gln	Gly	Pro 535	Leu	Ile	Glu	Ser	Pro 540	Ala	Asp	Asp	Ser

Pro Pro His His Ala Pro Pro Ala Leu Ala Thr Pro Ser Pro Glu Glu 545 550 555 560

Gly Glu Ile Gln Tyr Ala Ser Leu Ser Phe His Lys Ala Arg Pro Gln 565 570 575

Tyr Pro Gln Glu Gln Glu Ala Ile Gly Tyr Glu Tyr Ser Glu Ile Asn 580 585 590

Ile Pro Lys 595

<210> 2259

<211> 274

<212> PRT

<213> Homo sapiens

<400> 2259

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Ser Gly Leu Glu Thr Asp Thr Ala Val Pro Thr Glu Glu Ala Tyr Val 20 25 30

Ile Tyr Asp Glu Asp Tyr Glu Phe Glu Thr Ser Arg Pro Pro Thr Thr
35 40 45

Thr Glu Pro Ser Thr Thr Ala Thr Thr Pro Arg Val Ile Pro Glu Glu 50 60 .

Gly Ala Ile Ser Ser Phe Pro Glu Glu Glu Phe Asp Leu Ala Gly Arg
65 70 75 80

Lys Arg Phe Val Ala Pro Tyr Val Thr Tyr Leu Asn Lys Asp Pro Ser 85 90 95 :

Ala Pro Cys Ser Leu Thr Asp Ala Leu Asp His Phe Gln Val Asp Ser 100 105 110

Leu Asp Glu Ile Ile Pro Asn Asp Leu Lys Lys Ser Asp Leu Pro Pro 115 120 125

Gln His Ala Pro Arg Asn Ile Thr Val Val Ala Val Glu Gly Cys His 130 135 140

Ser Phe Val Ile Val Asp Trp Asp Lys Ala Thr Pro Gly Asp Val Val 145 150 155 160

Thr Gly Tyr Leu Val Tyr Ser Ala Ser Tyr Glu Asp Phe Ile Arg Asn 165 170 175

Lys Trp Ser Thr Gln Ala Ser Ser Val Thr His Leu Pro Ile Glu Asn 180 185 190

Leu Lys Pro Asn Thr Arg Tyr Tyr Phe Lys Val Gln Ala Gln Asn Pro 195 200 205

His Gly Tyr Gly Pro Ile Ser Pro Ser Val Ser Phe Val Thr Glu Ser

210 215 220

Asp Asn Pro Leu Leu Val Val Arg Pro Pro Gly Gly Glu Pro Ile Trp 225 230 235 240

Ile Pro Phe Ala Phe Lys His Asp Pro Ser Tyr Thr Asp Cys His Gly 245 250 . 255

Arg Gln Tyr Val Lys Arg Thr Leu Val Ser Lys Val Arg Gly Ser Trp 260 265 . 270

Ser Leu

<210> 2260

<211> 468

<212> PRT

<213> Homo sapiens

<400> 2260

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1 10 15

Leu Pro Pro Gly Ala Phe Ala Gln Leu Gly Gln Leu Ser Arg Leu Asp 20 25 30

Leu Thr Ser Asn Arg Leu Ala Thr Leu Ala Pro Asp Pro Leu Phe Ser 35 40 45

Arg Gly Arg Asp Ala Glu Ala Ser Pro Ala Pro Leu Val Leu Ser Phe 50 55 60

Ser Gly Asn Pro Leu His Cys Asn Cys Glu Leu Leu Trp Leu Arg Arg 65 70 75 80

Leu Ala Arg Pro Asp Asp Leu Glu Thr Cys Ala Ser Pro Pro Gly Leu 85 90 95

Ala Gly Arg Tyr Phe Trp Ala Val Pro Glu Gly Glu Phe Ser Cys Glu 100 105 110

Pro Pro Leu Ile Ala Arg His Thr Gln Arg Leu Trp Val Leu Glu Gly 115 120 125

Gln Arg Ala Thr Leu Arg Cys Arg Ala Leu Gly Asp Pro Ala Pro Thr 130 140

Met His Trp Val Gly Pro Asp Asp Arg Leu Val Gly Asn Ser Ser Arg 145 150 155 160

Ala Arg Ala Phe Pro Asn Gly Thr Leu Glu Ile Gly Ala Thr Gly Ala 165 170 175

Gly Asp Ala Gly Gly Tyr Thr Cys Ile Ala Thr Asn Pro Ala Gly Glu 180 185 190

Ala Thr Ala Arg Val Glu Leu Arg Val Leu Ala Leu Pro His Gly Gly
195 200 205

Asn Ser Ser Ala Glu Gly Gly Arg Pro Gly Pro Ser Asp Ile Ala Ala 210 215 220

Ser Ala Arg Thr Ala Ala Glu Gly Glu Gly Thr Leu Glu Ser Glu Pro 225 230 235 240

Ala Val Gln Val Thr Glu Val Thr Ala Thr Ser Gly Leu Val Ser Trp
245 250 255

Gly Pro Gly Arg Pro Ala Asp Pro Val Trp Met Phe Gln Ile Gln Tyr 260 265 270

Asn Ser Ser Glu Asp Glu Thr Leu Ile Tyr Arg Ile Val Pro Ala Ser 275 280 285

Ser His His Phe Leu Leu Lys His Leu Val Pro Gly Ala Asp Tyr Asp 290 295 300

Leu Cys Leu Leu Ala Leu Ser Pro Ala Ala Gly Pro Ser Asp Leu Thr 305 310 315 320

Ala Thr Arg Leu Leu Gly Cys Ala His Phe Ser Thr Leu Pro Ala Ser 325 330 335

Pro Leu Cys His Ala Leu Gln Ala His Val Leu Gly.Gly Thr Leu Thr 340 345 350

Val Ala Val Gly Gly Val Leu Val Ala Ala Leu Leu Val Phe Thr Val 355 360 365

Ala Leu Leu Val Arg Gly Arg Gly Aia Gly Asn Gly Arg Leu Pro Leu 370 375 380

Lys Leu Ser His Val Gln Ser Gln Thr Asn Gly Gly Pro Ser Pro Thr 385 390 395 400

Pro Lys Ala His Pro Pro Arg Ser Pro Pro Pro Arg Pro Gln Arg Ser
405 410 415

Cys Ser Leu Asp Leu Gly Asp Ala Gly Cys Tyr Gly Tyr Ala Arg Arg 420 425 430

- Leu Gly Gly Ala Trp Ala Arg Arg Ser His Ser Val His Gly Gly Leu 435 440 445

Leu Gly Ala Gly Cys Arg Gly Val Gly Gly Ser Ala Glu Arg Leu Glu 450 455 460

Glu Ser Val Val 465

<210> 2261

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Arg Gly Asp Phe Leu Leu Ser Val Asn Gly Ala Ser Leu Ala 1 5 10 15

Gly Leu Ala His Gly Asn Val Leu Lys Val Leu His Gln Ala Gln Leu 20 25 30

His Lys Asp Ala Leu Val Val Ile Lys Lys Gly Met Asp Gln Pro Arg

Pro Ser Ala Arg Gln Glu Pro Pro Thr Ala Asn Gly Lys Gly Leu Leu 50 55 . 60

Ser Arg Lys Thr Ile Pro Leu Glu Pro Gly Ile Gly Lys Met Ile Ile 65 70 75 80

Ser Thr Thr Ser Arg Leu

<210> 2262

<211> 105

<212> PŘT

<213> Homo sapiens

<400> 2262

Met Lys Gly Ser Arg Ala Leu Leu Leu Val Ala Leu Thr Leu Phe Cys

1 10 15

Ile Cys Arg Met Ala Thr Gly Glu Asp Asn Asp Glu Phe Phe Met Asp 20 25 30

Phe Leu Gln Thr Leu Leu Val Gly Thr Pro Glu Glu Leu Tyr Glu Gly 35 40 , 45

Thr Leu Gly Lys Tyr Asn Val Asn Glu Asp Ala Lys Ala Ala Met Thr
50 55 60

Glu Leu Lys Ser Cys Ile Asp Gly Leu Gln Pro Met His Lys Ala Glu 65 70 75 80

Leu Val Lys Leu Leu Val Gln Val Leu Gly Ser Gln Asp Gly Ala Gly 85 90 . 95

Thr Asp Tyr Lys Asp Asp Asp Asp Lys
100 105

<210> 2263

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2263

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Trp Ser Arg Glu Leu Pro Cys Ala Trp Arg Ala Leu His Thr Ser Pro 20 25 30

Val Cys Ala Lys Asn Arg Ala Ala Arg Val Arg Val Ser Lys Gly Asp 35 40 45

Lys Pro Val Thr Tyr Glu Glu Ala His Ala Pro His Tyr Ile Ala His 50 55 60

Arg Lys Gly Trp Leu Ser Leu His Thr Gly Asn Leu Asp Gly Glu Asp 65 70 75 . 80

His Ala Ala Glu Arg Thr Val Glu Asp Val Phe Leu Arg Lys Phe Met 85 90 95

Trp Gly Thr Phe Pro Gly Cys Leu Ala Asp Gln Leu Val Leu Lys Arg 100 105 110.

Arg Gly Asn Gln Leu Glu Ile Cys Ala Val Val Leu Arg Gln Leu Ser 115 120 125

Pro His Lys Tyr Tyr Phe Leu Val Gly Tyr Ser Glu Thr Leu Leu Ser 130 140

Tyr Phe Tyr Lys Cys Pro Val Arg Leu His Leu Gln Thr Val Pro Ser 145 . 150 . 155 . 160

Lys Val Val Tyr Lys Tyr Leu 165

<210> 2264

<211> 203

<212> PRT

<213> Homo sapiens

<400> 2264

Met Ala Arg Pro Arg Pro Arg Glu Tyr Lys Ala Gly Asp Leu Val Phe 1 5 10 15

Ala Lys Met Lys Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Glu Leu $20 \hspace{1cm} 25 \hspace{1cm} 30$

Pro Glu Gly Ala Val Lys Pro Pro Ala Asn Lys Tyr Pro Ile Phe Phe . 35 40 45

Phe Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro 50 55

Tyr Lys Glu Tyr Lys Asp Lys Phe Gly Lys Ser Asn Lys Arg Lys Gly 65 70 75 80

Phe Asn Glu Gly Leu Trp Glu Ile Glu Asn Asn Pro Gly Val Lys Phe 85 90 95

Thr Gly Tyr Gln Ala Ile Gln Gln Gln Ser Ser Ser Glu Thr Glu Gly 100 105 : 110

Glu Gly Gly Asn Thr Ala Asp Ala Ser Ser Glu Glu Glu Gly Asp Arg 115 120 125

Val Glu Glu Asp Gly Lys Gly Lys Arg Lys Asn Glu Lys Ala Gly Ser 130 135 140

Lys Arg Lys Lys Ser Tyr Thr Ser Lys Lys Ser Ser Lys Gln Ser Arg 145 150 155

Lys Ser Pro Gly Asp Glu Asp Asp Lys Asp Cys Lys Glu Glu Asn 165 170 175

Lys Ser Ser Ser Glu Gly Gly Asp Ala Gly Asn Asp Thr Arg Asn Thr 180 185 190

Thr Ser Asp Leu Gln Lys Thr Ser Glu Gly Thr 195 200

<210> 2265

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2265

Met Arg Ser Gly Lys Met Ala Pro Lys Pro Gln Ser Arg Cys Thr Ser 1 5 10 15

Thr Arg Ser Ala Gly Glu Ala Pro Ser Glu Asn Gln Ser Pro Ser Lys 20 25 30

Gly Pro Glu Glu Ala Ser Ser Glu Val Gln Asp Thr Asn Glu Val His
35 40

Val Pro Gly Asp Gln Asp Glu Pro Gln Thr Leu Gly Lys Lys Gly Ser 50 60

Lys Asn Asn Ile Ser Val Tyr Met Thr Leu Asn Gln Lys Lys Ser Asp 65 70 75 80

Ser Ser Ser Ala Ser Val Cys Ser Ile Asp Ser Thr Asp Asp Leu Lys
85 90 95

Ser Ser Asn Ser Glu Cys Ser Ser Ser Glu Ser Phe Asp Phe Pro Pro 100 105 110

Gly Ser Met His Ala Pro Ser Thr Ser Ser Thr Ser Ser Ser Ser Lys
115 120 125

Glu Glu Lys Lys Leu Ser Asn Ser Leu Lys Met Lys Val Phe Ser Lys 130 . 140

Asn Val Ser Lys Cys Val Thr Pro Asp Gly Arg Thr Ile Cys Val Gly 145 150 155 160

Asp Ile Val Trp Ala Lys Ile Tyr Gly Phe Pro Trp Trp Pro Ala Arg 165 170 175

Ile Leu Thr Ile Thr Val Ser Arg Lys Asp Asn Gly Leu Leu Val Arg 180 185 190

Gln Glu Ala Arg Ile Ser Trp Phe Gly Ser Pro Thr Thr Ser Phe Leu

195 200 205

Ala Leu Ser Gln Leu Ser Pro Phe Leu Glu Asn Phe Gln Ser Arg Phe 210 215 220

Asn Lys Lys Arg Lys Gly Leu Tyr Arg Lys Ala Ile Thr Glu Ala Ala 225 230 235 240

Lys Ala Ala Lys Gln Leu Thr Pro Glu Val Arg Ala Cys 245 250

<210> 2266

<211> 314

<212> PRT

<213> Homo sapiens

<400> 2266

Met Pro His Ala Phe Lys Pro Gly Asp Leu Val Phe Ala Lys Met Lys

1 5 10 15

Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Asp Ile Ala Asp Gly Ala
20 25 30

Val Lys Pro Pro Pro Asn Lys Tyr Pro Ile Phe Phe Phe Gly Thr His 35 40 45

Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro Tyr Asp Lys Cys
50 55 60

Lys Asp Lys Tyr Gly Lys Pro Asn Lys Arg Lys Gly Phe Asn Glu Gly 65 . 70 75 80

Leu Trp Glu Ile Gln Asn Asn Pro His Ala Ser Tyr Ser Ala Pro Pro 85 90 95

Pro Val Ser Ser Ser Asp Ser Glu Ala Pro Glu Ala Asp 100 105 110

Gly Ser Asp Ala Asp Glu Asp Glu Asp Arg Gly Val Met Ala Val 115 120 125

Thr Ala Val Thr Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser 130 . 135 140

Asp Ser Asp Lys Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro 145 150 155 160

Ala Leu Lys Met Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp 165 170 175

Leu Asp Gln Ala Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser 180 185 190

Ser Ser Glu Ser Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys 195 200 205

Lys Ala Ala Val Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys 210 215 220

Lys Lys Lys Ala Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser 225 230 235 240

Asp Gly Ala Lys Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser 245 250 255

Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys 260 265 270

Pro Pro Arg Gly Arg Lys Pro Thr Glu Lys Pro Leu Pro Lys Pro Arg 275 280 285

Gly Arg Lys Pro Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Ser Asp
290 295 300

Ser Asp Ser Asp Glu Val Asp Arg Ile Thr 305

<210> 2267

<211> 281

<212> PRT

<213> Homo sapiens

<400> 2267

Met Gly Ser Arg Gly Gln Gly Leu Leu Leu Ala Tyr Cys Leu Leu Leu 10 15

Ala Phe Ala Ser Gly Leu Val Leu Ser Arg Val Pro His Val Gln Gly 20 25 30

Glu Gln Gln Glu Trp Glu Gly Thr Glu Glu Leu Pro Ser Pro Pro Asp
35 40 45

His Ala Glu Arg Ala Glu Glu Gln His Glu Lys Tyr Arg Pro Ser Gln 50 60

Asp Gln Gly Leu Pro Ala Ser Arg Cys Leu Arg Cys Cys Asp Pro Gly 65 70 75 80

Thr Ser Met Tyr Pro Ala Thr Ala Val Pro Gln Ile Asn Ile Thr Ile

85 90 95

Leu Lys Gly Glu Lys Gly Asp Arg Gly Asp Arg Gly Leu Gln Gly Lys
100 105 110

Tyr Gly Lys Thr Gly Ser Ala Gly Ala Arg Gly His Thr Gly Pro Lys 115 120 125

Gly Gln Lys Gly Ser Met Gly Ala Pro Gly Glu Arg Cys Lys Ser His 130 135 140

Tyr Ala Ala Phe Ser Val Gly Arg Lys Lys Pro Met His Ser Asn His 145 . 150 . 155 . 160

Tyr Tyr Gln Thr Val Ile Phe Asp Thr Glu Phe Val Asn Leu Tyr Asp 165 170 175

His Phe Asn Met Phe Thr Gly Lys Phe Tyr Cys Tyr Val Pro Gly Leu 180 185 . 190 Tyr Phe Phe Ser Leu Asn Val His Thr Trp Asn Gln Lys Glu Thr Tyr 195 200 Leu His Ile Met Lys Asn Glu Glu Glu Val Ala Ile Leu Phe Ala Gln 215 Val Gly Asp Arg Ser Ile Met Gln Ser Gln Ser Leu Met Leu Glu Leu 225 235 240 Arg Glu Gln Asp Gln Val Trp Val Arg Leu Tyr Lys Gly Glu Arg Glu 245 250 Asn Ala Ile Phe Ser Glu Glu Leu Asp Thr Tyr Ile Thr Phe Ser Gly . 265 260 270 Tyr Leu Val Lys His Ala Thr Glu Pro . . 280

INDICATIONS RELATING TO A DEPOSITED MICROORGANISM OR OTHER BIOLOGICAL MATERIAL

OKOTHEKE	IOLOGICAL MATERIAL				
(P	CT Rule 13bis)				
A. The indications made below relate to the deposited middle description on page 243, line 24.	croorganism or other biological material referred to in the				
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet					
Name of depositary institution: American Type	Culture Collection				
Address of depositary institution (including post 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	al code and country)				
Date of deposit 11 April 2001	Accession Number PTA-3276				
C. ADDITIONAL INDICATIONS (leave blank if not app	licable) This information is continued on an additional sheer				
D. DESIGNATED STATES FOR WHICH INDICATE	ONS ARE MADE (if the indications are not for all designated States)				
	s sought a sample of the deposited microorganism will be made available an patent or until the date on which the application has been refused or such a sample to an expert nominated by the person requesting the Continued on additional sheets				
E. SEPARATE FURNISHING OF INDICATIONS (Legran	ri blank if non applicable)				
The indications listed below will be submitted to the international Number of Deposit")	Bureau luter (specify the general nature of the indications e.g. "Accessio,				
For receiving Office use only	For International Bureau use only				
This sheet was received with the international application	This sheet was received by the International Bureau on 15 MAY 2001 (15.05.01)				
Authorized officer	Authorized officer P. Becarnel				
levised Form PCT/RO/134 (January 2001)	Petrol34cp:				

ATCC Deposit No.: PTA-3276

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No.: PTA-3276

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later that at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

INDICATIONS RELATING TO A DEPOSITED MICROORGANISM OR OTHER BIOLOGICAL MATERIAL

OR OTHER BI	OLOGICAL MATERIAL						
(PC	TT Rule 13bis)						
A. The indications made below relate to the deposited mic description on page 243, line 24.	roorganism or other biological material referred to in the						
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet							
Name of depositary institution: American Type (Culture Collection						
Address of depositary institution (including postal 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	al code and country)						
Date of deposit	Accession Number						
11 April 2001	PTA-3277						
C. ADDITIONAL INDICATIONS (leave blank if not appl	icable) This information is continued on an additional sheet						
D. DESIGNATED STATES FOR WHICH INDICATION	DNS ARE MADE (4) the indicanous are not for all descented States)						
Europe In respect of those designations in which a European Patent is until the publication of the memory of the European	sought a sample of the deposited microorganism will be made available in patent or until the date on which the application has been refused or such a sample to an expert nominated by the person requesting the Continued on additional sheets						
E. SEPARATE FURNISHING OF INDICATIONS Reason							
The indications listed below will be submitted to the international Number of Deposit")	Buseau later (specify the general nature of the indicutions e.g. "Accession						
For receiving Office use only	For International Bureau use only						
This sheet was received with the international application	This sheet was received by the International Burgay on 5. 01.)						
Authorized officer	Authorized officer						
evised Form PCT/RO/134 (January 2001)	Prima 3/ co cult.o						

ATCC Deposit No.: PTA-3277

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No.: PTA-3277

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later that at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

INDICATIONS RELATING TO A DEPOSITED MICROORGANISM OR OTHER BIOLOGICAL MATERIAL

OR OTHER BIOLOGICAL MATERIAL						
	(PCT Rule 13bis)					
A. The indications made below relate to the deposite description on page 243, line 24.	ed microorganism or other biological material referred to in th∈					
B. IDENTIFICATION OF DEPOSIT	Further deposits are identified on an additional sheet					
Name of depositary institution: American T	ype Culture Collection					
Address of depositary institution (including 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	postal code and country)					
Date of deposit	Accession Number					
11 April 2001	PTA-3278					
C. ADDITIONAL INDICATIONS (leave blank if n	of applicable) This information is continued on an additional sheet					
D. DESIGNATED STATES FOR WHICH INDIC	CATIONS ARE MADE (if the Indications are not for all designated States)					
Europe In respect of those designations in which a European Paunil the publication of the mention of the grant of the Re-	tent is sought a sample of the deposited microorganism will be made available duropean patent or until the date on which the application has been refused or such a sample to an expert normated by the person requesting the Continued on additional sheets					
E. SEPARATE FURNISHING OF INDICATION						
The indications listed below will be submitted to the intern Number of Deposit")	ational Bureau later (specify the general nature of the indications e.g., "Accession					
For receiving Office use only	For International Bureau use only					
This sheet was received with the international application	on 2 This sheet was received by the International Bureau on 1.5 MAY ASS (15.05.01)					
Authorized officer	Authorized officer					
evised Form PCT/RO/134 (January 2001)	Petro 134cp sollist					

ATCC Deposit No.: PTA-3278

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the firmishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No.: PTA-3278

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later that at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

Revised Form PCT/RO/134 (January 2001)

Petro (34cp sollist

INDICATIONS RELATING TO A DEPOSITED MICROORGANISM OR OTHER BIOLOGICAL MATERIAL (PCT Rule 13bis) A. The indications made below relate to the deposited microorganism or other biological material referred to in the description on page 243, line 24 B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional slicer Name of depositary institution: American Type Culture Collection Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America Date of deposit Accession Number 11 April 2001 PTA-3279 C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet. D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect of those designations in which a European Patent is sought a sample of the deposited microorganism will be made available unni the publication of the mention of the grant of the European patent or until the date on which the application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28(4) EPC). Continued on additional sheets E. SEPARATE FURNISHING OF INDICATIONS (teare class of not applicable) The indications listed below will be submitted to the international Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit") For receiving Office use only For International Bureau use only This sheet was received with the international application This sheet was received by the International Bureau on: 15 May (1.5.05.01) Authorized officer

Authorized officer

ATCC Deposit No.: PTA-3279

CANADA

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

ATCC Deposit No.: PTA-3279

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later that at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume 1 of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/11988

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07H 21/04								
	US CL: 536/23.4, 23.5							
	According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED							
								
Minimum documentation searched (classification system followed by classification symbols) U.S.: 536/23.4, 23.5								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST, DIALOG								
C. DOC	UMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where a	appropriate, of the relevant passages Relevant to claim No.						
Υ .	WO 97/34997 A1 (HUMAN GENOME SCIENCE	S, INC.) 25 September 1997, see the 1-9, 15-19						
Y	whole document. WO 97/24445 A1 (DELTA BIOTECHNOLOGY LIMITED) 10 July 1997, see the whole document.							
Y	EP 0 322 094 A1 (DELTA BIOTECHNOLOGY L	IMITED) 28 June 1989, see Figure 1. 1-9, 15-19						
		-						
Further	documents are listed in the continuation of Box C.	See patent family annex.						
• S	pecial categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the						
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the invention						
	plication or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone						
"L" document establish t specified)	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination						
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art						
priority d	published prior to the international filing date but later than the atte claimed	"&" document member of the same patent family						
Date of the a	ctual completion of the international search	Date of mailing of the international search report 05 SEP 2001						
Com Box Wasi	ailing address of the ISA/US missioner of Patents and Trademarks PCT thington, D.C. 20231 p. (703)305-3230	Authorized officer Peress Strzelecka Telephone No. (703) 308-0196						

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/11988

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)							
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:							
2. Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:							
3. Claim Nos.: 10-14, 20-32, 34-36 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).							
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)							
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet							
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:							
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-9, 15-19, protein X HETFO52							
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.							

INTERNATIONAL	SEARCH	REPORT
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International application No.

PCT/US01/11988

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

- 1. Groups 1-6918, claims 1-9 and 15-19 (all in part), drawn to an albumin fusion protein comprising a Therapeutic protein:X and albumin.
- If Group 1 is elected, this correlates to protein identified by X=HETFO52 with a preferred indication Y: neural/sensory, reproductive.
- If Group 2 is elected, this correlates to protein identified by X=HETEZ10 with a preferred indication Y: cancer.
- 5. Groups 6919-13836, claim 33 (in part), drawn to a method of extending the shelf life of a Therapeutic protein:X. If Group 6919 is elected, this correlates to protein identified by X=HETFO52 with a preferred indication Y: neural/sensory, reproductive.

If Group 6920 is elected, this correlates to protein identified by X=HETEZ10 with a preferred indication Y: cancer.

The inventions listed as Groups 1-13836 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature is an albumin fusion protein. Balance et al. (WO 90/13653) teach albumin fusion proteins comprising human fibronectin, CD4, platelet derived growth factor, transforming growth factor beta, human von Willebrand factor or alpha-1-antitrypsin.

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